D-E01/EJ01

SERVICE MANUAL

Ver 1.0 1999. 06

Photo: D-E01

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model
D-EJ01
Tourist Model
D-E01

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM-3021EBA
Optical Pick-up Name	DAX-21E

SPECIFICATIONS

System
Compact disc digital audio system

Laser diode properties
Material: GaAlAs
Wavelength: λ = 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW (This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

D-A conversion
1-bit quartz time-axis control

Frequency response
20 - 20,000 Hz +1/–2 dB
(measured by EIAJ CP-307)

Output (at 4.5 V input level)
Line output (stereo minijack)
Output level 0.7 V rms at 47 kilohms
Recommended load impedance over 10 kilohms
Headphones (stereo minijack)
Approx. 15 mW + Approx. 15 mW at 16 ohms
(Approx. 3 mW + Approx. 3 mW at 16 ohms) *
* For the customers in France
Optical digital output
(optical output connector)
Output level: –21 - –15 dBm
Wavelength: 630 - 690 nm at peak level

Power requirements
For the area code of the model you purchased, check the upper left side of the bar code on the package.
- Two Sony NH-14WM rechargeable batteries: 2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack):
  US, CND model: 120 V, 60 Hz
  AEP, FR, G, E13 model:
  220 - 230 V, 50/60 Hz
  UK model: 230 - 240V, 50 Hz
  AUS model: 240 V, 50 Hz
  E01/E33 model: 100 - 240 V, 50/60 Hz
  EJ01: HK model: 220 V, 50/60 Hz
  CH model: 220 V, 50 Hz
- Sony DCC-E245 car battery cord for use on car battery: 4.5 V DC

Battery life * (approx. hours)
(When you use the CD player on a flat and stable surface.)
Playing time varies depending on how the CD player is used.

Two NH-14WM (charged for about 4 hours **)	25
Battery case (two alkaline batteries)	40
Rechargeable batteries NH-14WM and battery case (two alkaline batteries)	62

* Measured value by the standard of EIAJ (Electronic Industries Association of Japan).
** Charging time varies depending on how the rechargeable battery is used.

– Continued on next page –

PORTABLE CD PLAYER

MICROFILM

SONY®

Operating temperature
5°C - 35°C (41°F - 95°C)
Dimensions (w/h/d) (excluding projecting parts and controls)
Approx. 138.5 × 21.5 × 136.2 mm
(5 1/2 × 7/8 × 5 3/8 in.)
Mass (excluding rechargeable batteries)
Approx. 220 g (7.8 oz.)
Supplied accessories
For the area code of the location in which you purchased the CD player, check the upper left side of the bar code on the package.
AC power adaptor AC-E455 (1)
Headphones/earphones with remote control RM-CD01ELT + MDR-E838SP (1) (Except US model)
RM-CD01ELT + MDR-W034SP (1) (US model only)
Rechargeable batteries NH-14WM (2)
Battery carrying case (2)
Carrying case (1)
Battery case (1)
8-cm CD adaptor (1) *
AC plug adaptor (1) **
* Supplied with E01/E13, HK, CH models
** Supplied with E01/E33 model only

For US customers
The AC power adaptor supplied is not intended to be serviced. Should the AC power adaptor cease to function in its intended manner, during the warranty period, the adaptor should be returned to your nearest Sony Service Center or Sony Authorized Repair Center for replacement, or after warranty period, it should be discarded.

Design and specifications are subject to change without notice.

- Abbreviation
  CND : Canadian model
  FR : French model
  G : German model
  E13 : AC 220-230V area in E model
  AUS : Australian model
  E33 : AC 100-240V area in E model
  HK : Hong Kong model
  CH : Chinese model

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT table is located on the bottom exterior.

Flexible Circuit Board Repairing
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on Chip Component Replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

TABLE OF CONTENTS

1. SERVICE NOTE 3

2. GENERAL
Getting started 4
Playing a CD 5

3. DISASSEMBLY
3-1. Upper Panel Assy 6
3-2. Tray (P) Assy, Escutcheon, Cabinet 6
3-3. OP Assy 7
3-4. SW Unit Assy, Main Board 7

4. ELECTRICAL ADJUSTMENT
4-1. Focus Bias Check 8

5. DIAGRAMS
5-1. IC Pin Description 9
5-2. Block Diagram –CD Section– 11
5-3. Block Diagram –Audio Section– 13
5-4. Block Diagram –Power Supply Section– 15
5-5. Printed Wiring Board 17
5-6. Schematic Diagram –Main Section (1/3)– 21
5-7. Schematic Diagram –Main Section (2/3)– 23
5-8. Schematic Diagram –Main Section (3/3)– 25

6. EXPLODED VIEWS
6-1. Upper Panel Section 31
6-2. Lower Panel Section 32
6-3. CD Mechanism Deck Section 33

7. ELECTRICAL PARTS LIST 34

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICE NOTE

• NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

• NOTES ON LASER DIODE EMISSION CHECK

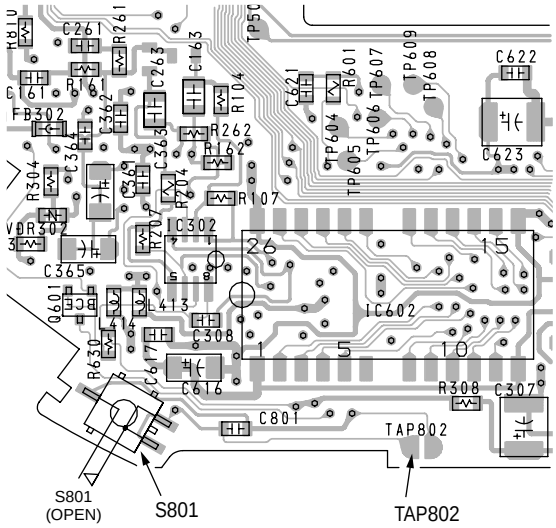
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

• To Check the Laser Diode and Focus Search Operation

Open the upper panel. Turn on the power without a disc while the main board S801 (OPEN) is ON (or TAP802 is shorted). Then, observe the objective lens and check that the following operations are performed.

1. Scatterd light of laser beams is seen.
2. Check for vertical movements (five) of the objective lens (with movement of the PU on the inner circumference).

– main board (side A) –



• Before Replacing the Optical Pick-Up Block

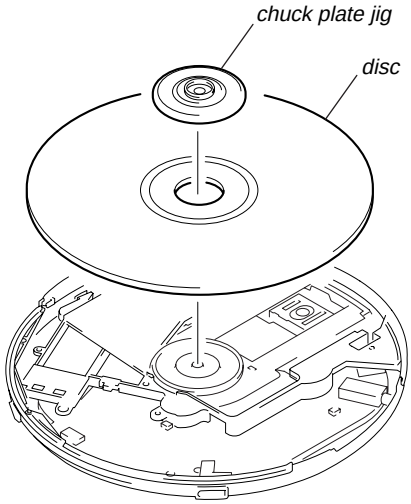
Please be sure to check throughly the parameters as par the “Optical Pick-Up Block Checking Procedures” (Part No.: 9-960-027-11) issued separately before replacing the optical pick-up block. Note and specifications required to check are given below.

• FOK output : IC601 ㉟ pin
When checking FOK, remove the lead wire to disc motor.
When checking FOK value, remove the lead wire to disc motor.
• RF signal P-to-P value : 0.35 - 0.65 Vp-p
• The repairing grating holder is impossible.

• CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the upper panel section, use Chuck Plate Jig.

• Part No. of Chuck Plate Jig: 4-221-965-01



SECTION 2
GENERAL

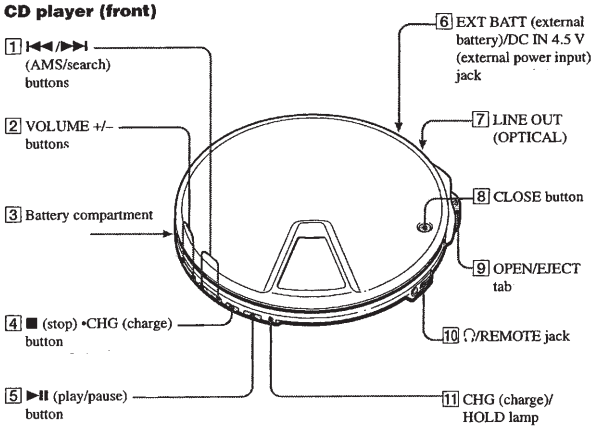
This section is extracted from instruction manual.

Getting started

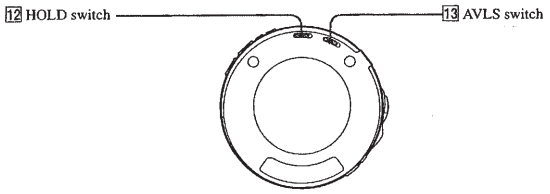
Locating the Controls

For details, see pages in parentheses.

CD player (front)

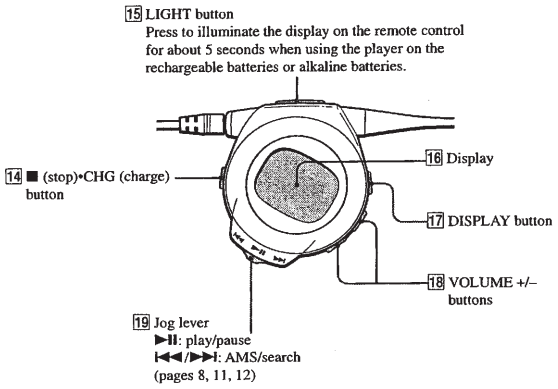


CD player (rear)

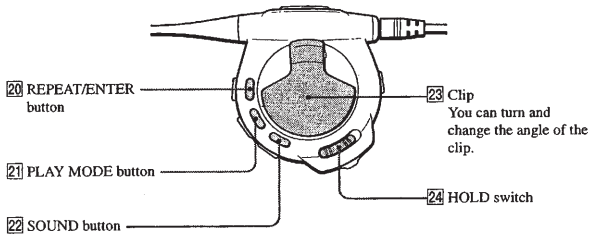


Remote control

(Front)



(Rear)



Note

Use only the supplied remote control. You cannot operate this CD player with the remote control supplied with other CD players.

Playing a CD

You can also use rechargeable batteries, dry batteries and a car battery as a power source.

1. Connect your CD player.

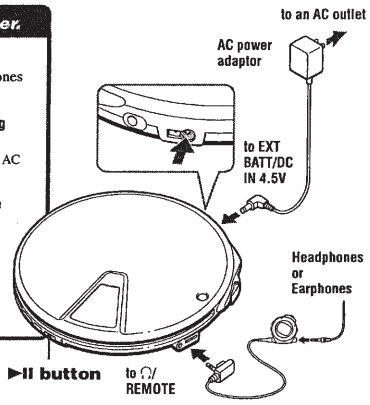
❶ Connect the AC power adaptor.
❷ Connect the headphones/earphones with remote control.

For models supplied with the AC plug adaptor

If the AC power adaptor does not fit the AC outlet, use the AC plug adaptor.

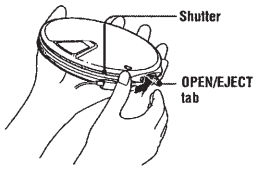
For models supplied with the remote control.

- Connect the plug of the headphones/ earphones to the remote control.
- Connect the headphones/earphones to the remote control firmly. A loose connection may cause noise during playback.

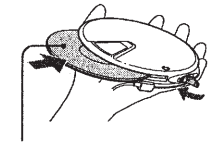


2. Insert a CD.

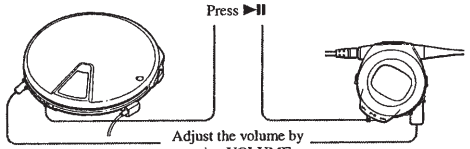
❶ Pull out the OPEN/EJECT tab.
❷ Push back the lever to open the shutter of the CD compartment.



❸ Insert the CD into the slot with the label side up, and push it .
The shutter closes automatically.
❹ Shut the OPEN/EJECT tab.

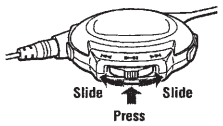


3. Play a CD.



Using the remote control

The lever marked with I◄◄-►II-►►I is the jog lever. Press or slide the lever to operate your CD player.



To	Do this
Play/Pause	Press the jog lever toward ►II.
Stop	Press ■•CHG.*2
Find the beginning of the current track (AMS*1)	Slide the jog lever toward I◄◄ once.*2
Find the beginning of the previous tracks (AMS)	Slide the jog lever toward I◄◄ repeatedly.*2
Find the beginning of the next track (AMS)	Slide the jog lever toward ►►I once.*2
Find the beginning of the succeeding tracks (AMS)	Slide the jog lever toward ►►I repeatedly.*2
Go backwards quickly	Slide and hold the jog lever toward I◄◄.*2
Go forward quickly	Slide and hold the jog lever toward ►►I.*2

*1 Automatic Music Sensor
*2 These operations can be done during both play and pause.

Playing an 8-cm (3-inch) CD

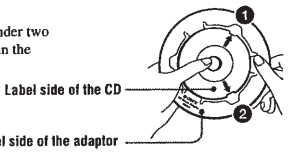
You cannot play an 8-cm CD on this CD player without using an adaptor. Make sure to attach an 8-cm CD adaptor to the CD before inserting it into the player.

- **Do not insert an 8-cm CD only into the slot.**
- **Do not insert an 8-cm CD adaptor CSA-8 only into the slot.**

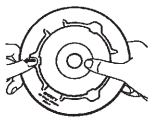
If you do, try to remove it by turning the slot side down and shaking the player. In some cases you will not be able to remove it.

Attaching an adaptor to an 8-cm CD

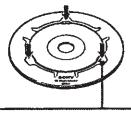
1 Slide the CD into the inner groove and under two of the tabs on the inner circle of adaptor in the numbered order.



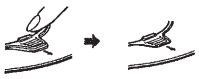
2 Pull the third tab out away from the CD and the CD will slip into place. Release the third tab and the CD will be held firmly in place.



3 Check that all the tabs are even with the surface of the adaptor.
Also check that the CD is set correctly in the grooves of the adaptor.

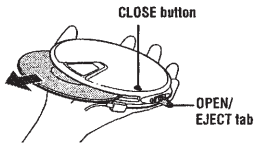


If the tabs protrude, press them back down into place. Otherwise, the player may malfunction.



Removing the CD

1 Press ■•CHG to stop playing the CD.
2 Pull out the OPEN/EJECT tab and slide it.
The CD appears from the slot.
3 Remove the CD, and press the CLOSE button to close the shutter of the CD compartment.
4 Push back the OPEN/EJECT tab.



Note

If you pull out the OPEN/EJECT tab without pressing ■•CHG in step 1, the CD may be damaged or malfunction may occur.

(Continued)

About the display

- When you press ►II after changing the CD or turning off and on the player, the total number of tracks in the CD and total playing time appear for about two seconds.
- During play, the track number and the elapsed playing time of the current track appear.
- During play of a CD containing text information, the disc name, artist name and the elapsed playing time of the current track appear. For details, see "Displaying CD text information".
- Between tracks, the time to the beginning of the next track appears with the "–" indication.
- During pause, the elapsed playing time flashes.

If the volume level does not increase

Is AVLS set to "LIMIT"? Set AVLS to "NORM." For details, see "Protecting your hearing (AVLS)."

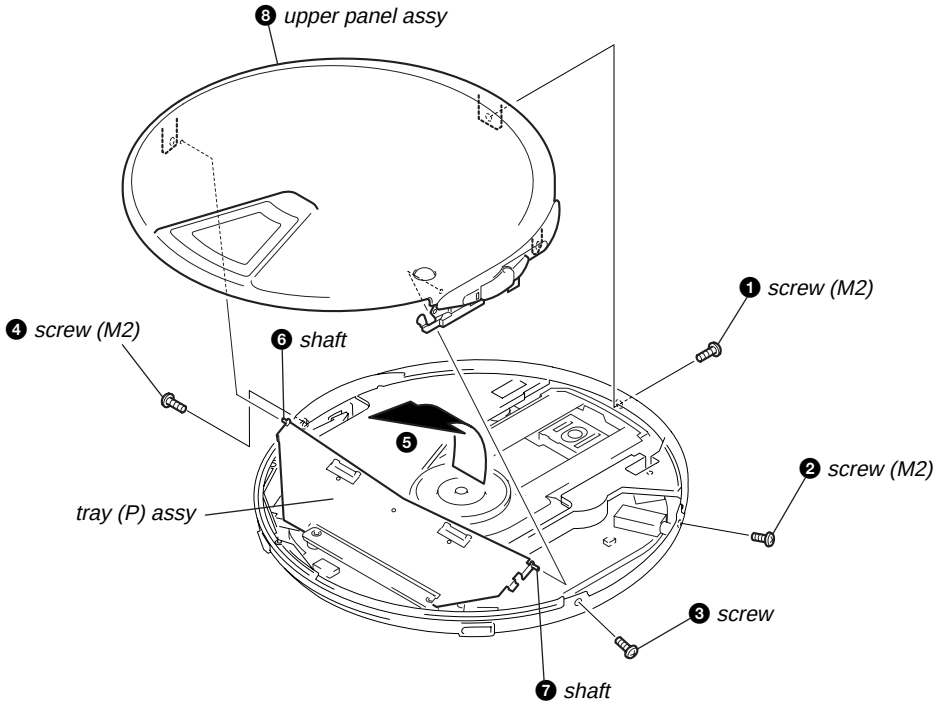
Playback always starts from the point you stopped

Your CD player can always recall the playback point where you stopped and then resume playing from the same place without making any specific settings.

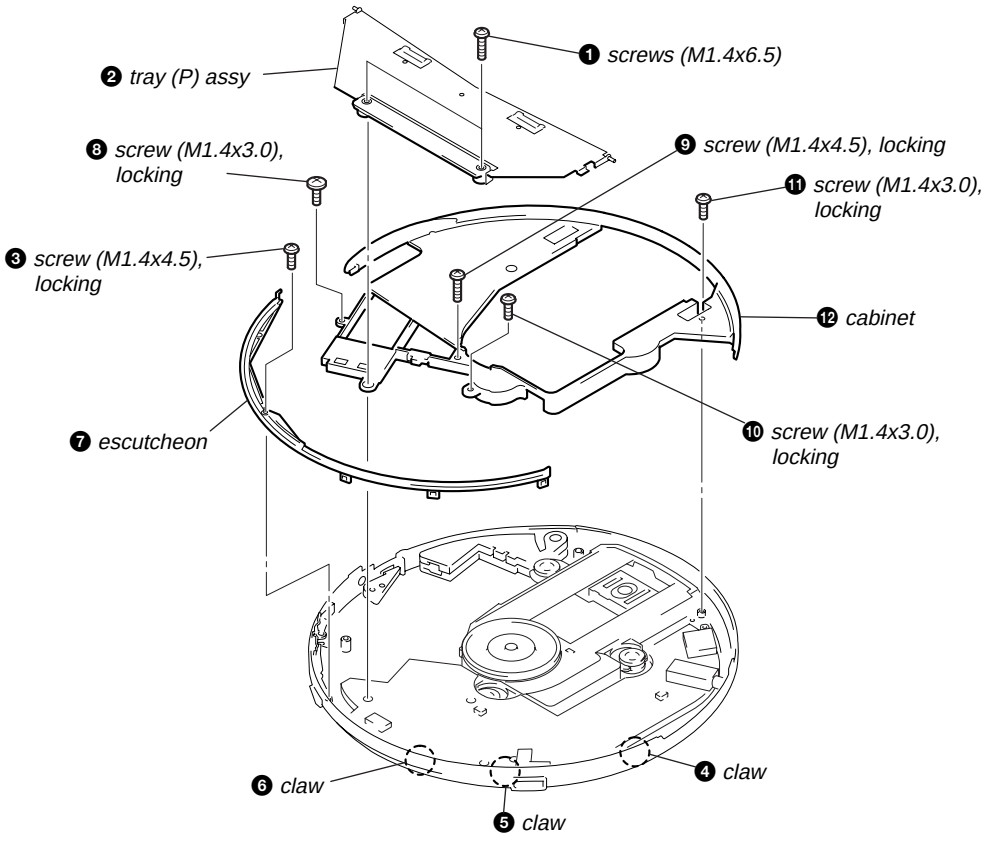
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

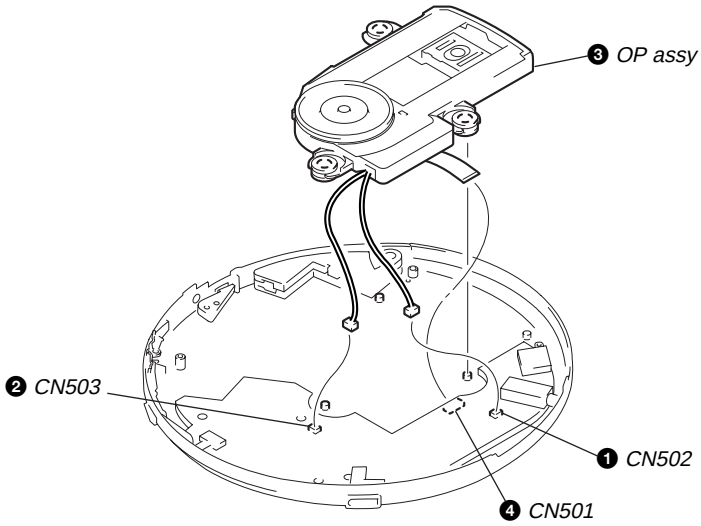
3-1. UPPER PANEL ASSY



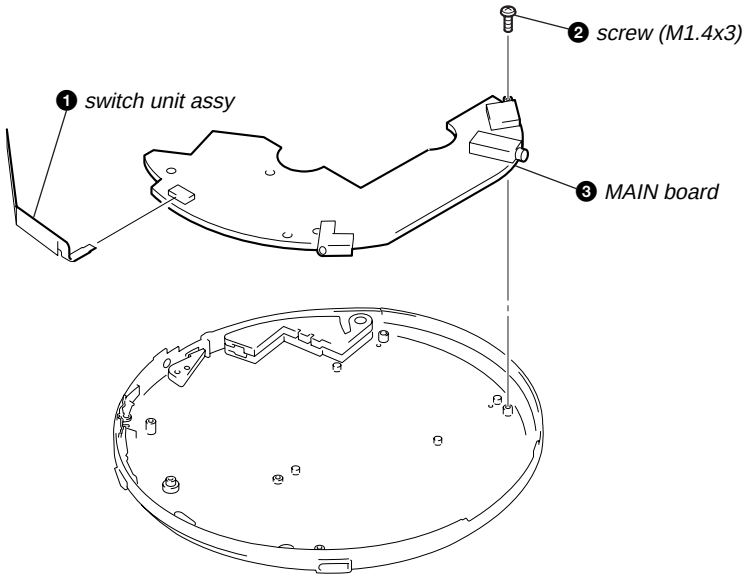
3-2. TRAY (P) ASSY, ESCUTCHEON, CABINET



3-3. OP ASSY



3-4. SW UNIT ASSY, MAIN BOARD



SECTION 4
ELECTRICAL ADJUSTMENTS

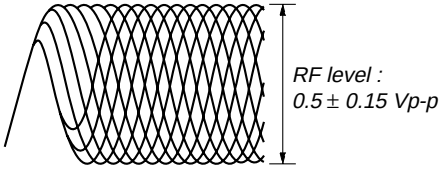
CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

4-1. FOCUS BIAS CHECK

1. Connect the oscilloscope between TP614 (RF) or TP601 (RF) and GND on main board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ►II button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

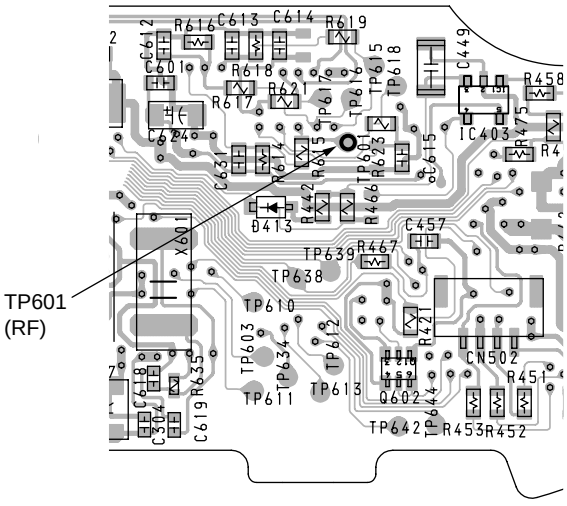
VOLT/DIV : 100 mV (10 : 1 probe in use)
TIME/DIV : 500 nS



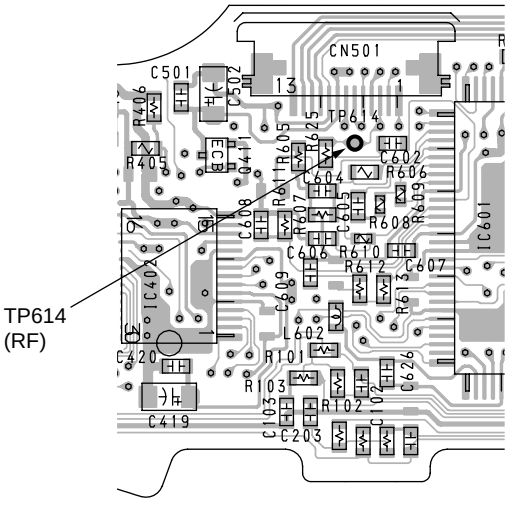
When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Test Points:

– main board (side A) –



– main board (side B) –



SECTION 5
DIAGRAMS

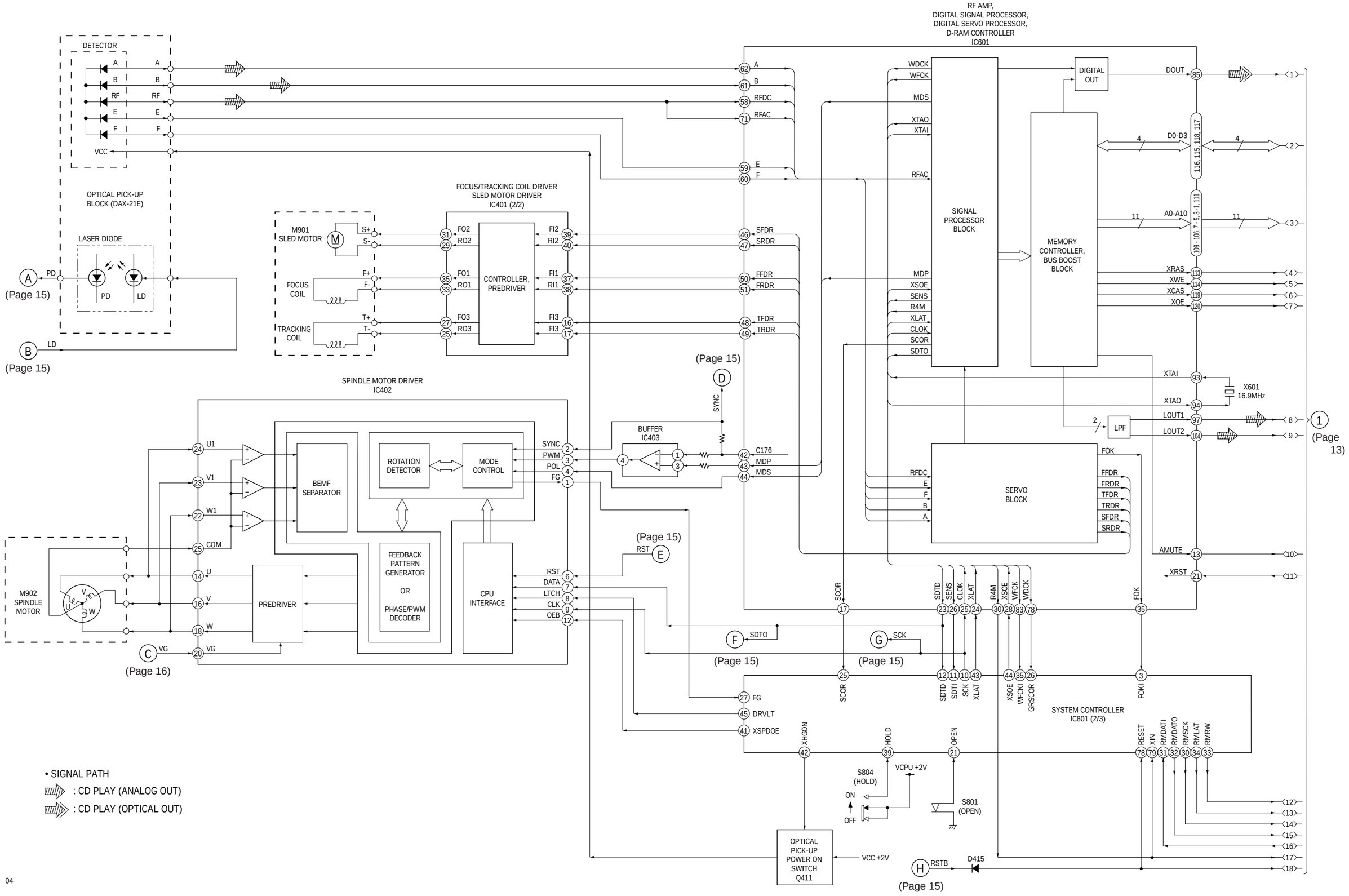
5-1. IC PIN DESCRIPTION

• IC801 TMP88CM22F-00 (SYSTEM CONTROLLER)

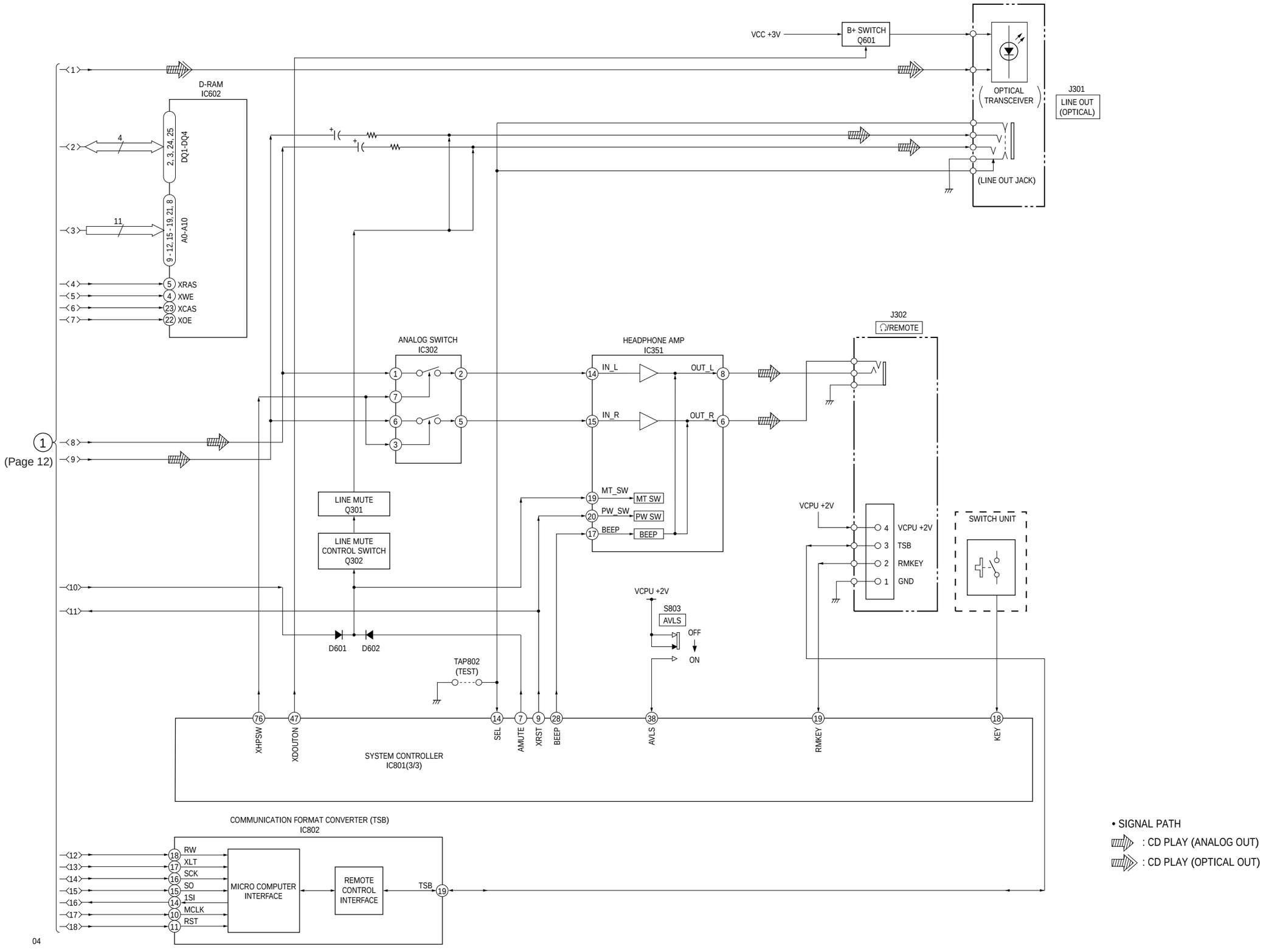
Pin No.	Pin Name	I/O	Pin Description
1	VSS	I	Ground
2	IRRMC	I	Fixed at L.
3	FOKI	I	Focus OK signal input from digital servo processor (IC601).
4	AGCCON	O	AGC control pulse output
5	XLEDDISP	O	CHG/HOLD LED control signal output
6	VCC SWITCHING	O	Control signal output for Switching power supply circuit.
7	AMUTE	O	Analog audio muting ON/OFF signal control signal output (H: Mute ON)
8	VCC2 ON	O	VCC2 voltage control output
9	XRST	O	Reset signal output to CXD3027R (IC601). (L: Reset)
10	SCK	O	Serial data transfer clock signal output to CXD3027R (IC601).
11	SDTI	I	Serial data input from CXD3027R (IC601).
12	SDTO	O	Serial data output to CXD3027R (IC601).
13	SLPOUT	O	WAKE-UP control signal output (for system standby reset)
14	SEL	I	Plug-in detection signal input of LINE OUT/OPTICAL OUT jack.
15	CHGMNT1	I	Battery charge voltage detection input from power control IC (IC401).
16	VCDKEY	I	Fixed at H.
17	BATMNT	I	Battery voltage detection input
18	KEY	I	Key input from switch unit (A/D input)
19	RMKEY	I	Key input from headphones with remote controller (A/D input).
20	DCINMNT	I	DC input voltage detection input (A/D input) DC input jack use/no-use detect input
21	OPEN	I	CD door open/close detection input
22	VREFL	I	Reference voltage (0 V) input for A/D converter.
23	VREFH	I	Reference voltage (+2 V) input for A/D converter.
24	VDD	—	Power supply pin (+2 V)
25	SCOR	I	Sub code sync detection input from CXD3027R (IC601).
26	GRSCOR	I	GRSCOR signal input
27	FG	I	FG pulse input
28	BEEP	O	Beep sound output to headphone AMP (IC802).
29	NC	—	Not used. (Open)
30	RMSCK	O	Communication clock to CXD751 (IC801).
31	RMDATI	I	Communication data bus of headphones with remote controller from CXD751 (IC802).
32	RMDATO	O	Communication data bus of headphones with remote controller to CXD751 (IC802).
33	RMRW	O	Read/write control signal output to headphones with remote. (L: Read, H: Write)
34	RMLAT	O	Serial data latch pulse output to headphones with remote.
35	WFCKI	I	WFCK input
36, 37	NC	—	Not used. (Open)
38	AVLS	I	AVLS (Automatic Volume Limiter System) switch input (L: Normal, H: Limit)
39	HOLD	I	HOLD switch input (L: HOLD on, H: HOLD off)
40	EX BATT	I	EXT BATT plug-in detection input
41	XSPDOE	O	Spindle motor driver control signal output
42	XHGON	O	Optical pick-up VCC control signal output (L: on)
43	XLAT	O	Serial data latch pulse output to D-RAM controller (IC601). (for ESP)
44	XSOE	O	Output enable signal output (for ESP)
45	DRVLT	O	Spindle motor driver latch output
46	XPOWLT	O	Latch output to VCD control IC.
47	XDOUTON	O	DIGITAL OUT LED control signal output
48	XAPC OFF	O	APC mute signal output (L: mute)
49	NC	—	Not used. (Open)
50 – 52	SEG14 – 12	O	LCD drive segment output (Open)
53 – 56	SEG11 – 8	O	LCD drive segment output (Open)
57 – 64	SEG7 – 0	O	LCD drive segment output (Open)

Pin No.	Pin Name	I/O	Pin Description
65 – 68	COM3 – 0	O	LCD drive common output (Open)
69 – 71	V3 – 1	O	LCD drive bias output (Open)
72, 73	C1, 0	O	Capacitor connected terminal of LCD driver for voltage-up.
74	STOP	O	Stop signal output to VCD control IC. (Connect to ground.)
75	TEST	I	Test terminal for IC. Fixed at L.
76	XHPSW	O	Headphone AMP ON/OFF control signal output (L: ON)
77	XLIGHT	O	LCD back light control signal output to LCD. (Not used.)
78	RESET	I	System reset signal input from power control IC (IC401). (L: Reset)
79	XIN	I	Oscillation input
80	XOUT	O	Oscillation output (Open)

5-2. BLOCK DIAGRAM — CD SECTION —

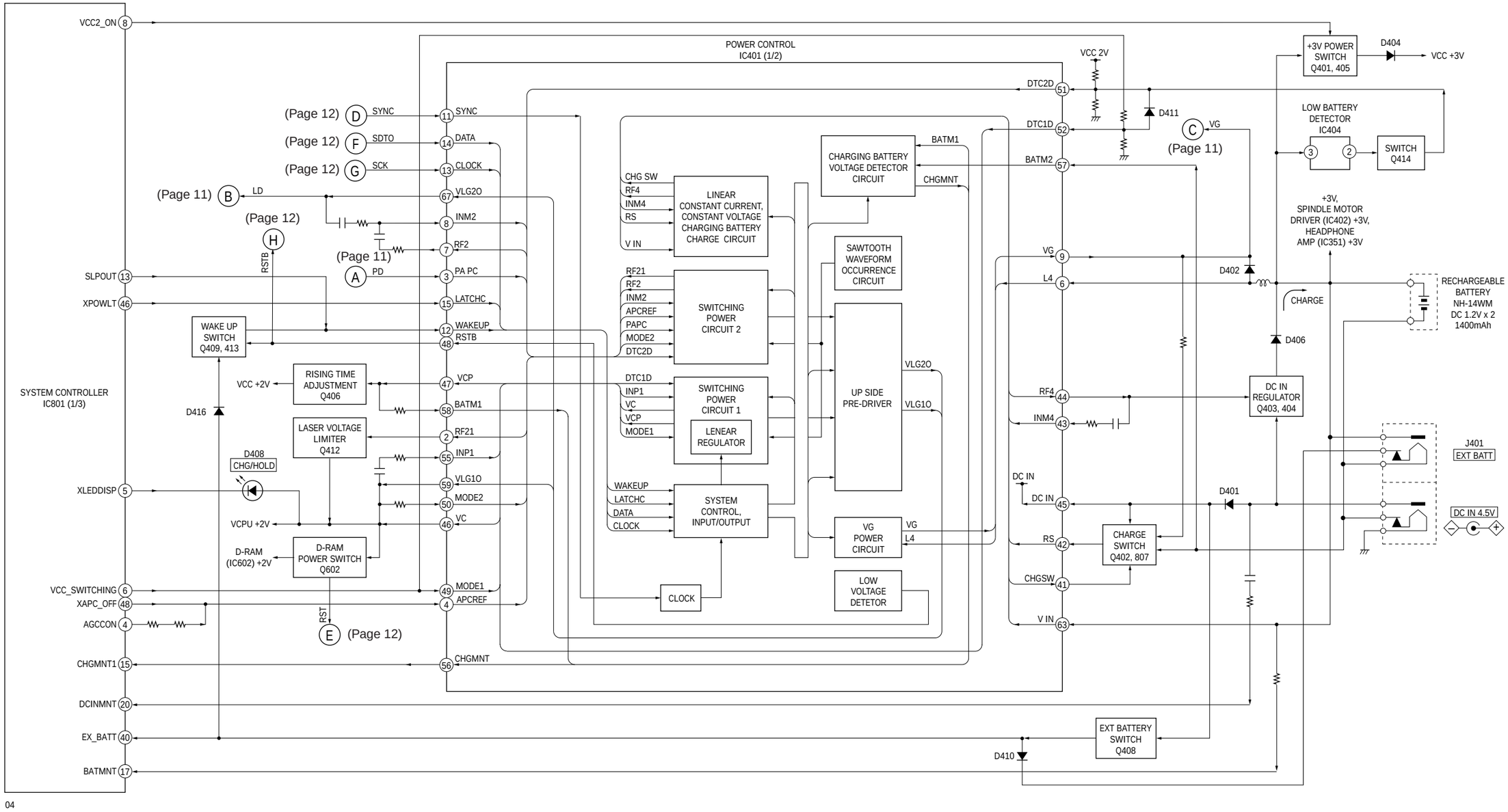


5-3. BLOCK DIAGRAM — AUDIO SECTION —

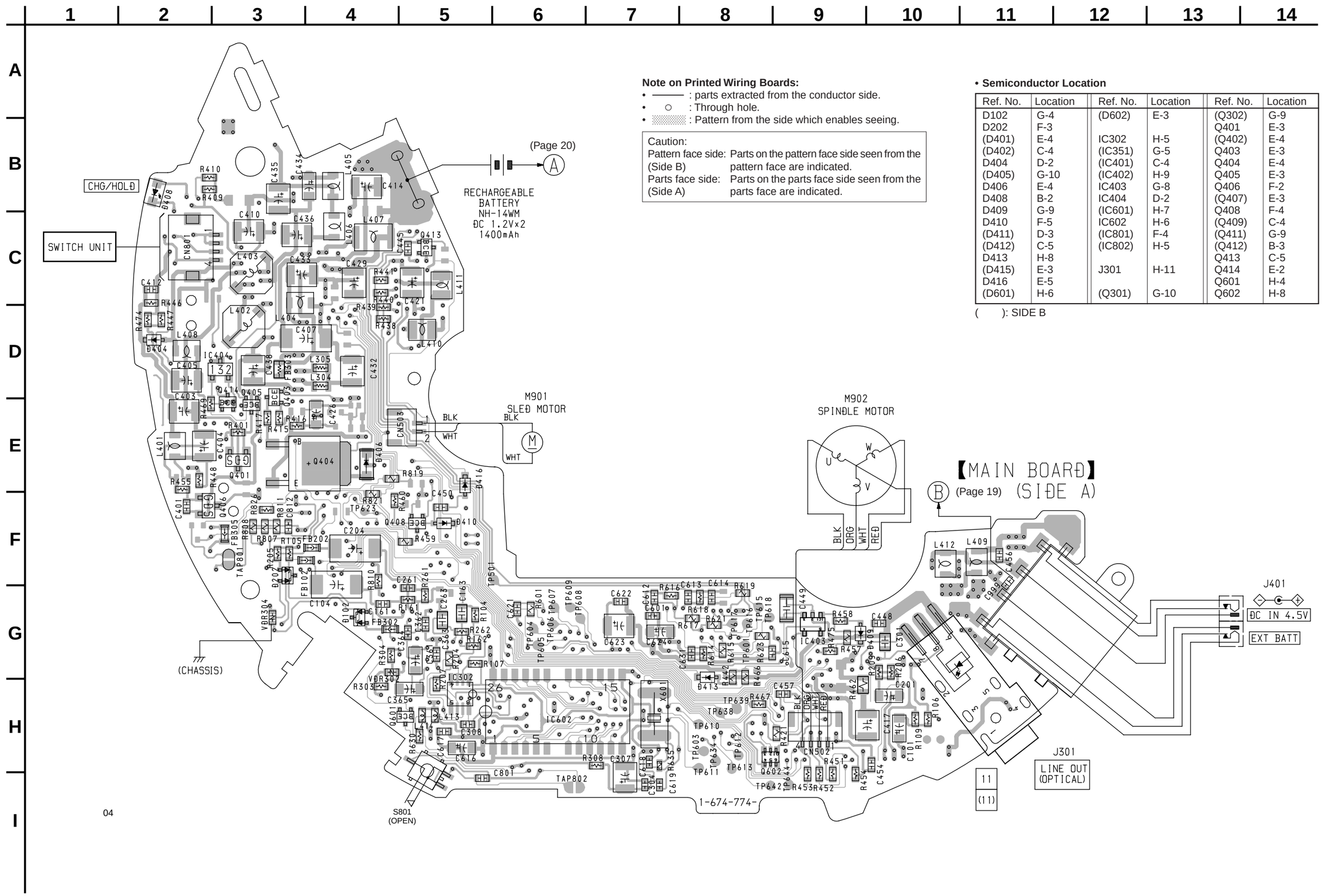


• SIGNAL PATH
: CD PLAY (ANALOG OUT)
: CD PLAY (OPTICAL OUT)

5-4. BLOCK DIAGRAM — POWER SUPPLY SECTION —



5-5. PRINTED WIRING BOARD



Note on Printed Wiring Boards:

- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.

• Semiconductor Location

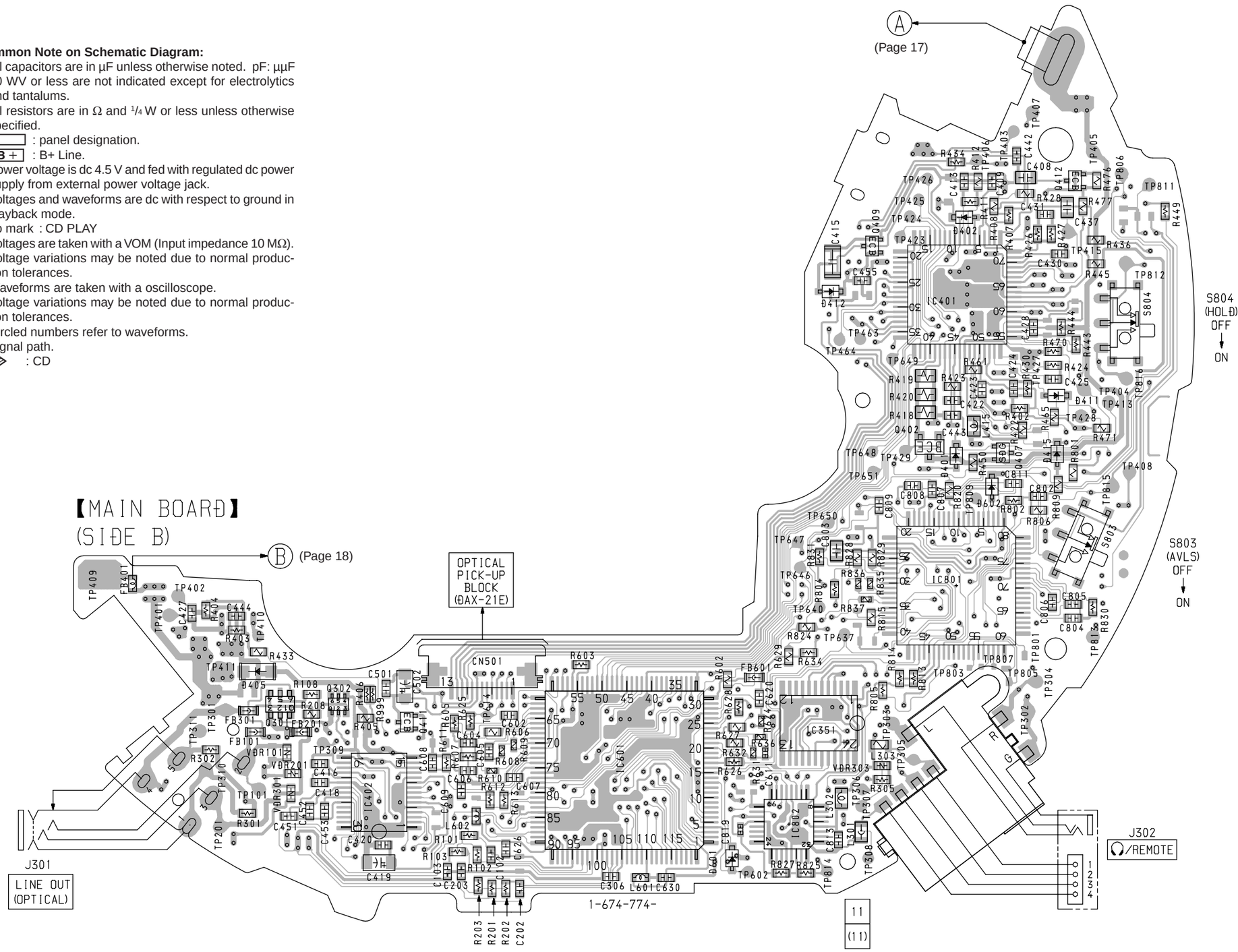
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D102	G-4	(D602)	E-3	(Q302)	G-9
D202	F-3			Q401	E-3
(D401)	E-4	IC302	H-5	(Q402)	E-4
(D402)	C-4	(IC351)	G-5	Q403	E-3
D404	D-2	(IC401)	C-4	Q404	E-4
(D405)	G-10	(IC402)	H-9	Q405	E-3
D406	E-4	IC403	G-8	Q406	F-2
D408	B-2	IC404	D-2	(Q407)	E-3
D409	G-9	(IC601)	H-7	Q408	F-4
D410	F-5	IC602	H-6	(Q409)	C-4
(D411)	D-3	(IC801)	F-4	(Q411)	G-9
(D412)	C-5	(IC802)	H-5	(Q412)	B-3
D413	H-8			Q413	C-5
(D415)	E-3	J301	H-11	Q414	E-2
D416	E-5			Q601	H-4
(D601)	H-6	(Q301)	G-10	Q602	H-8

( ): SIDE B

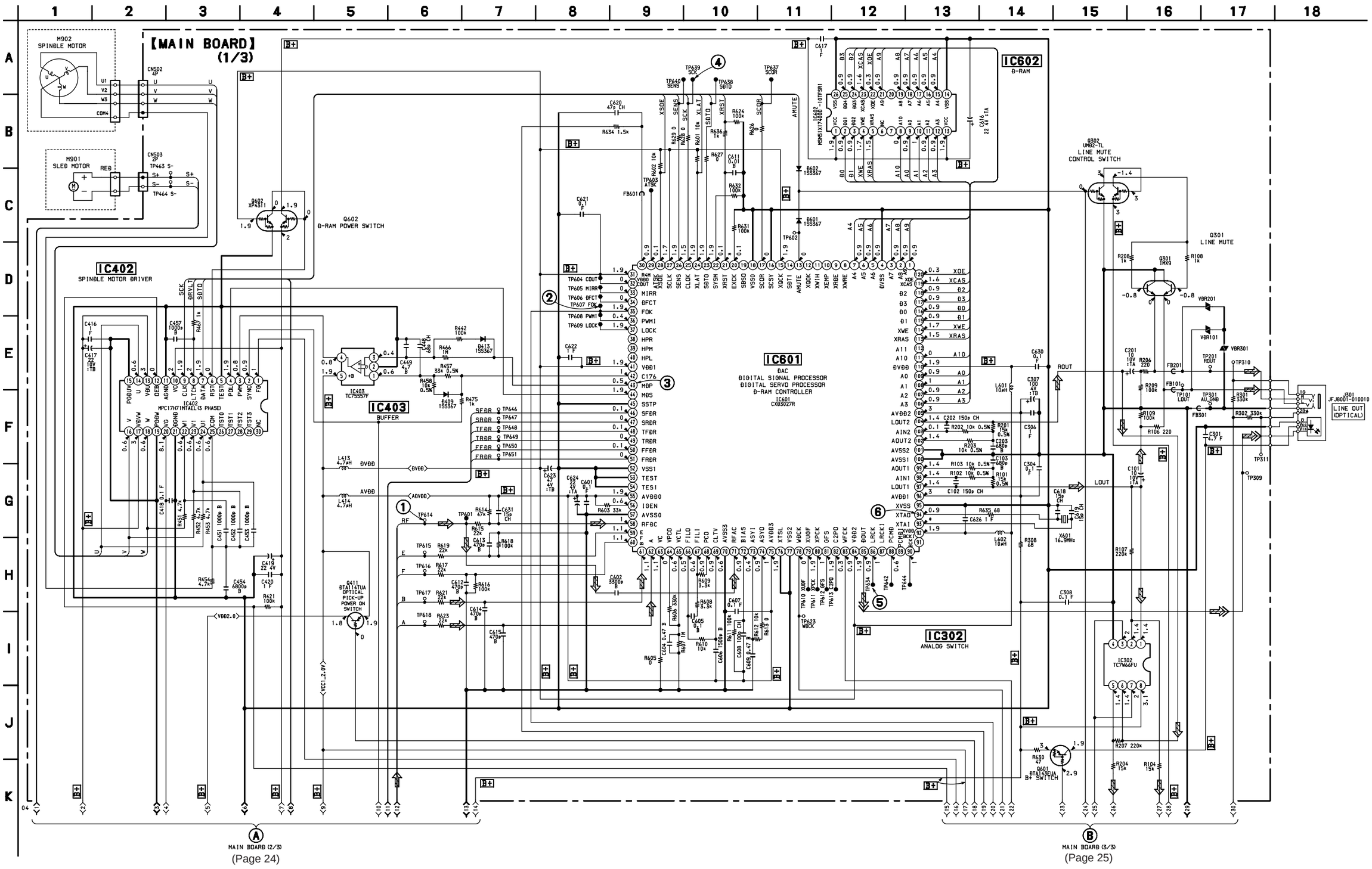
Common Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 4.5 V and fed with regulated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground in playback mode.
  no mark : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

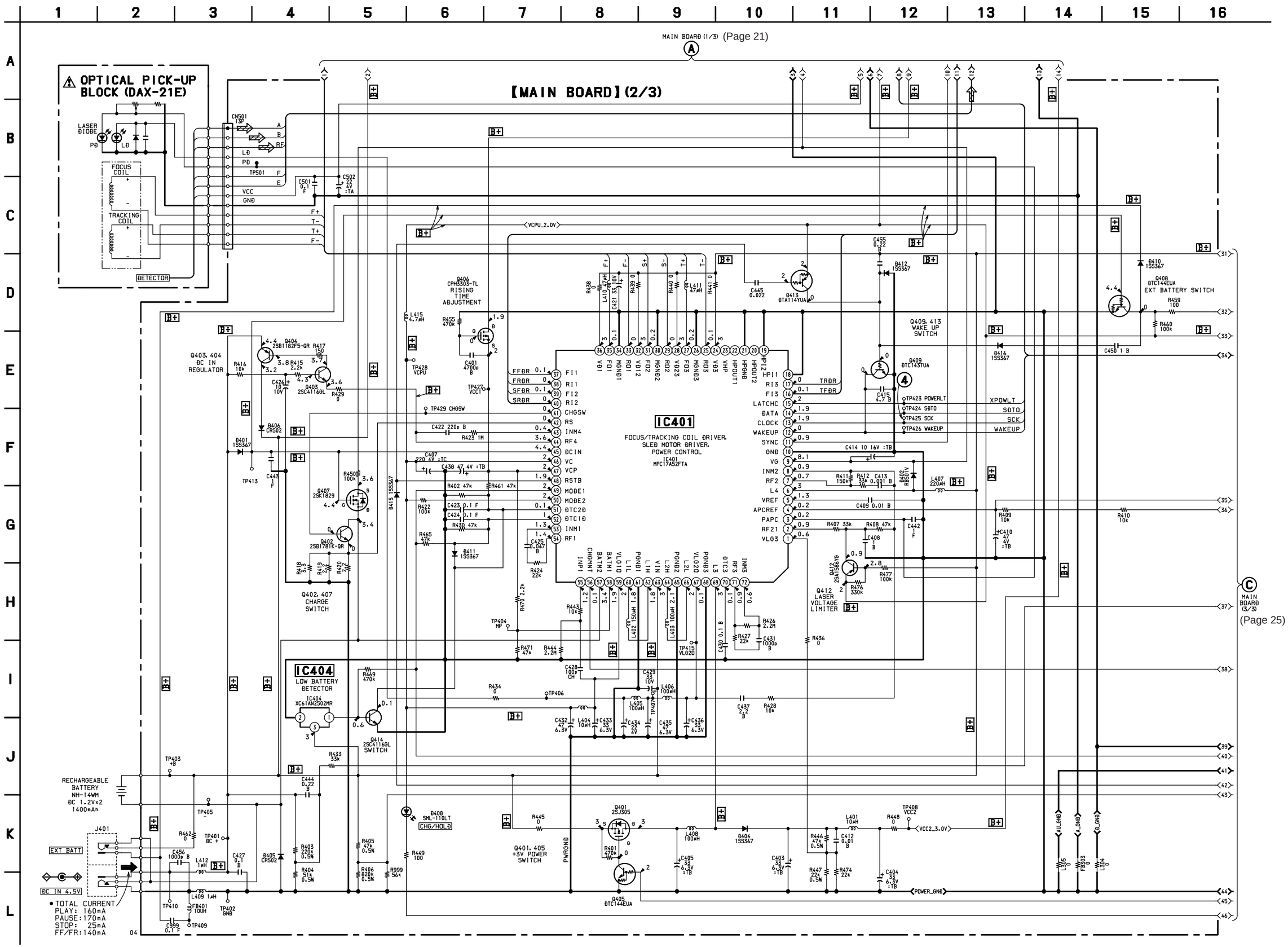
【MAIN BOARD】
(SIDE B)



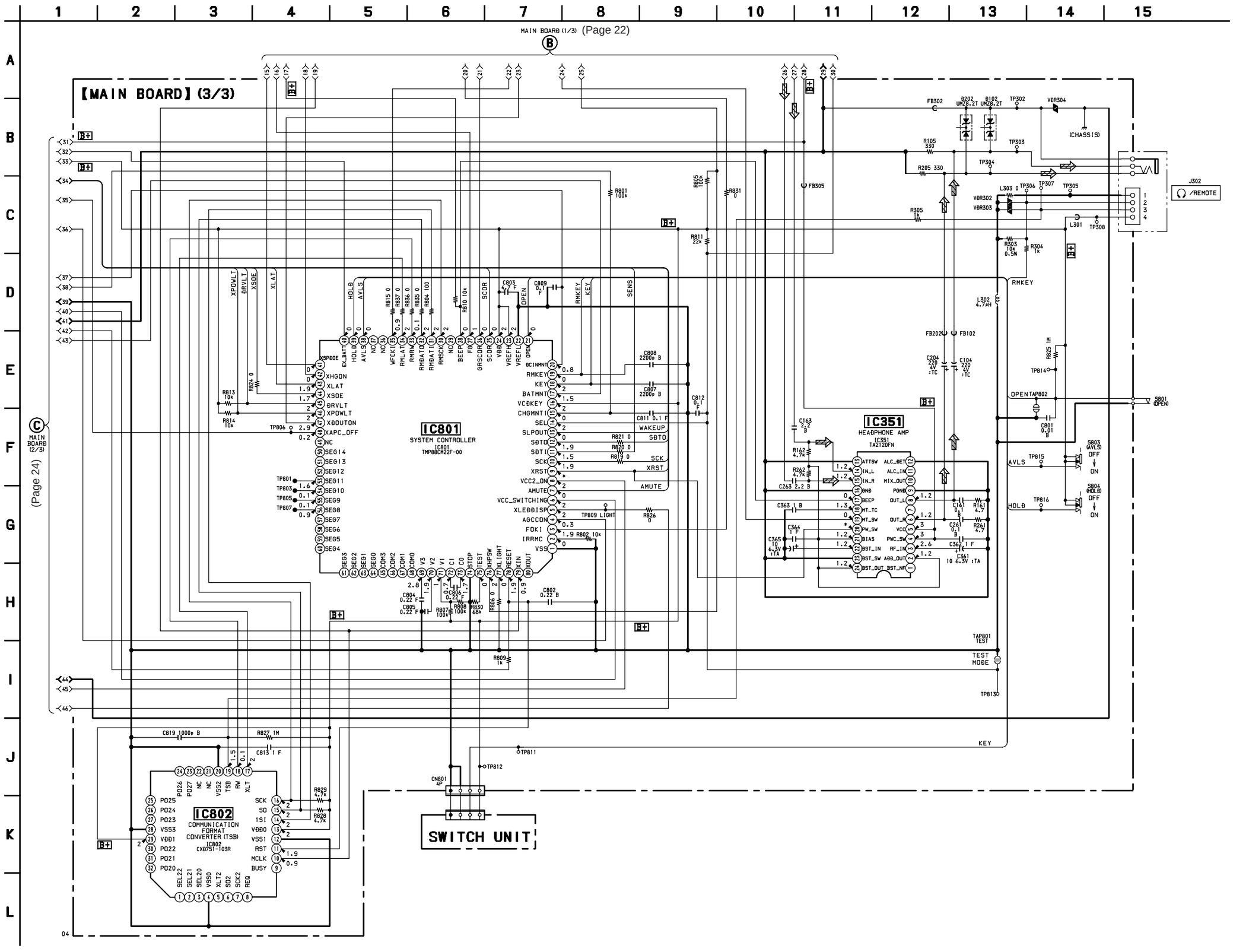
5-6. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 19 for Common Note Schematic Diagram, page 26 for Waveforms and page 27 for IC Block Diagrams.



5-7. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 19 for Common Note Schematic Diagram, page 26 for Waveforms and page 29 for IC Block Diagrams.



5-8. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — • Refer to page 19 for Common Note Schematic Diagram and page 30 for IC Block Diagrams.



• Waveforms (Play mode)

① 400mVp-p, 0.5µsec/div, TP614 (RF)

② 2V, 0V, 20µsec/div, TP607 (FOK)

③ 2Vp-p, 2µsec/div, IC601 ㊸ (MDP)

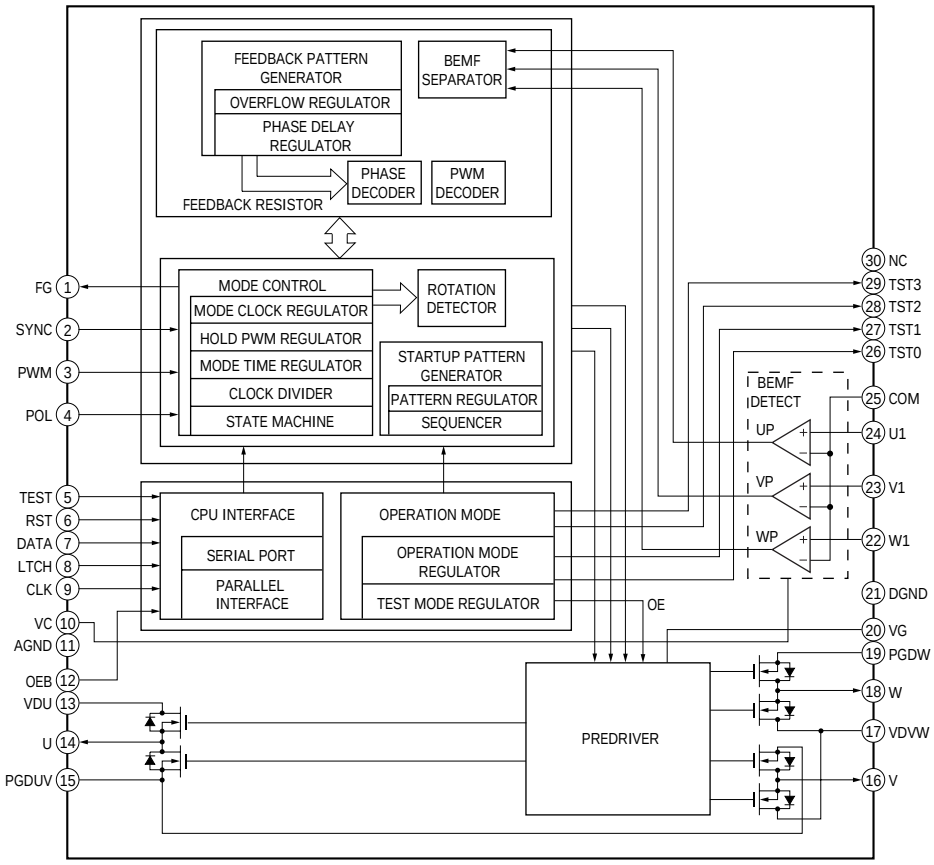
④ 2Vp-p, 0.5µsec/div, TP425 (SCK) TP639 (SCK)

⑤ 2Vp-p, 5µsec/div, TP634 (LRCK)

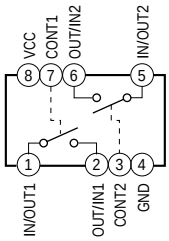
⑥ 1.9Vp-p, 16.9MHz, 0.05µsec/div, IC601 ㊹ (XTAO)

• **IC Block Diagrams**

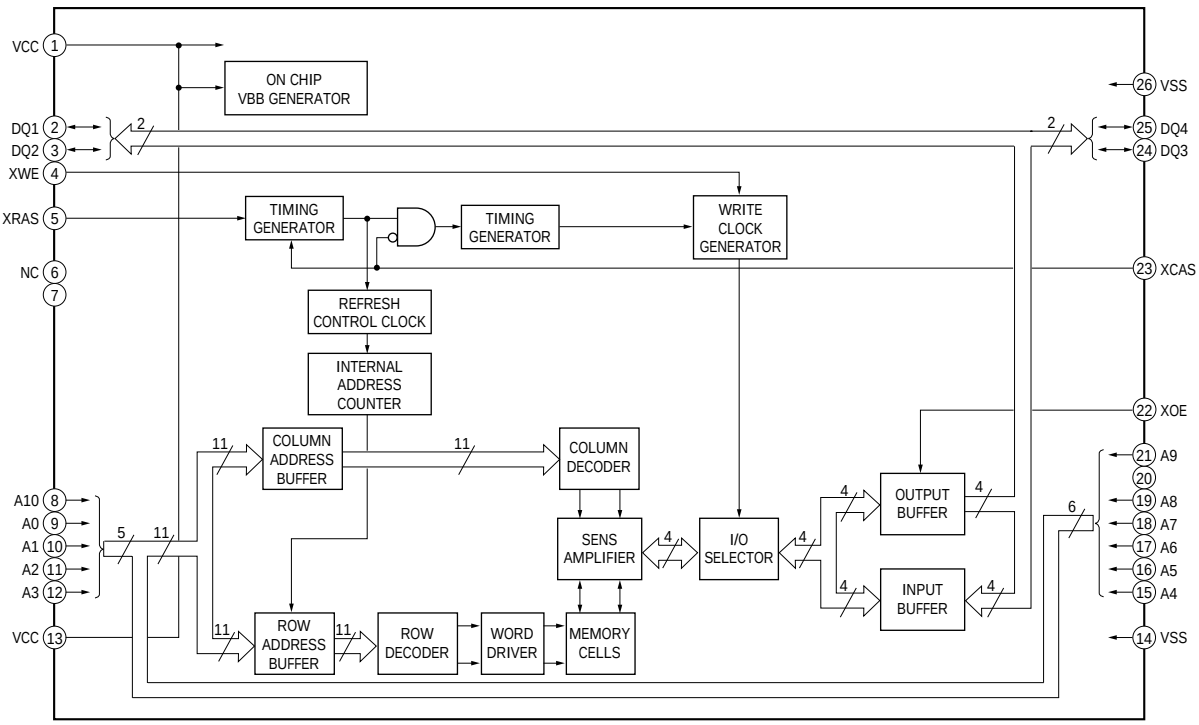
IC402 MPC17H71MTAEL



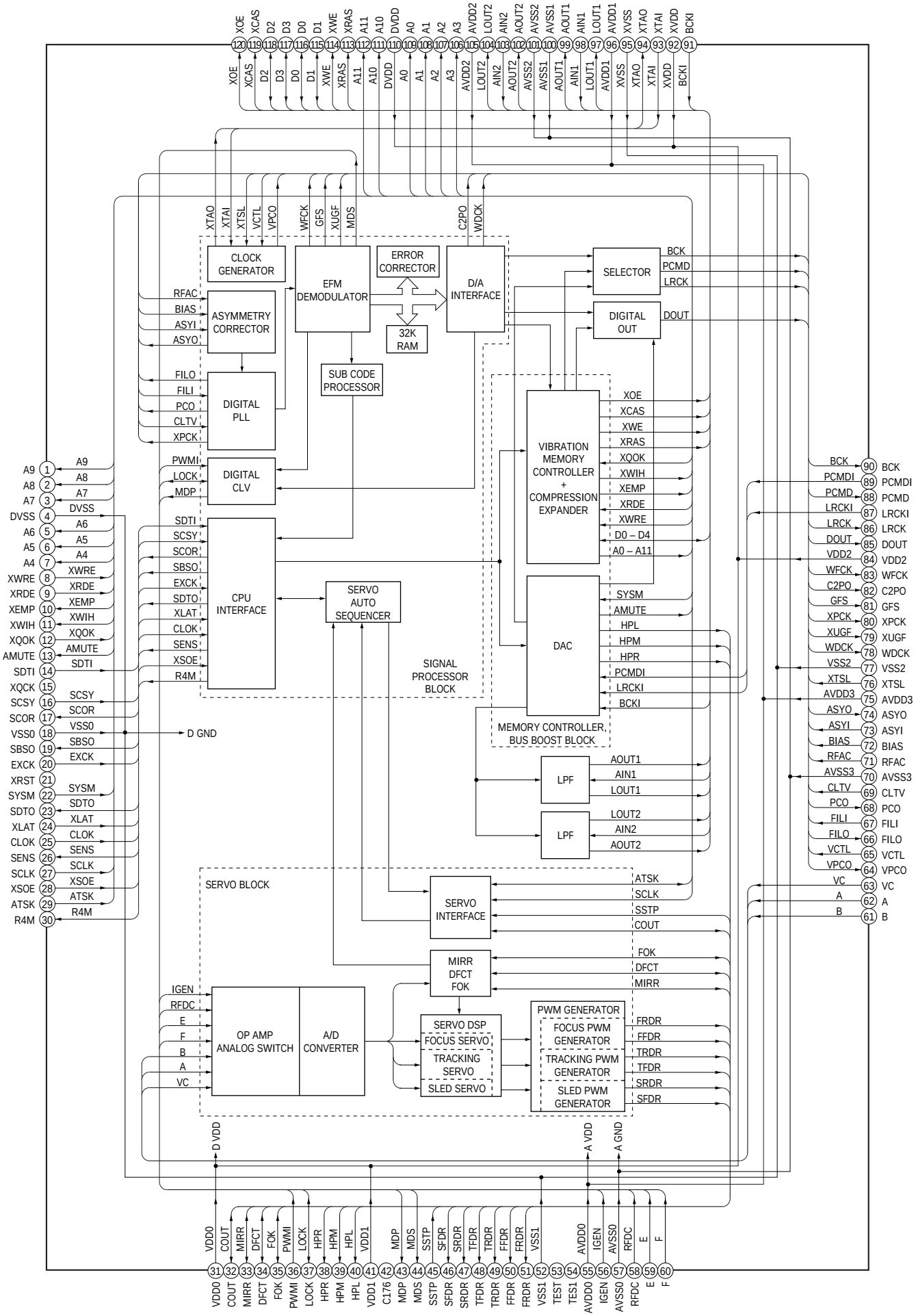
IC302 TC7W66FU(TE12R)



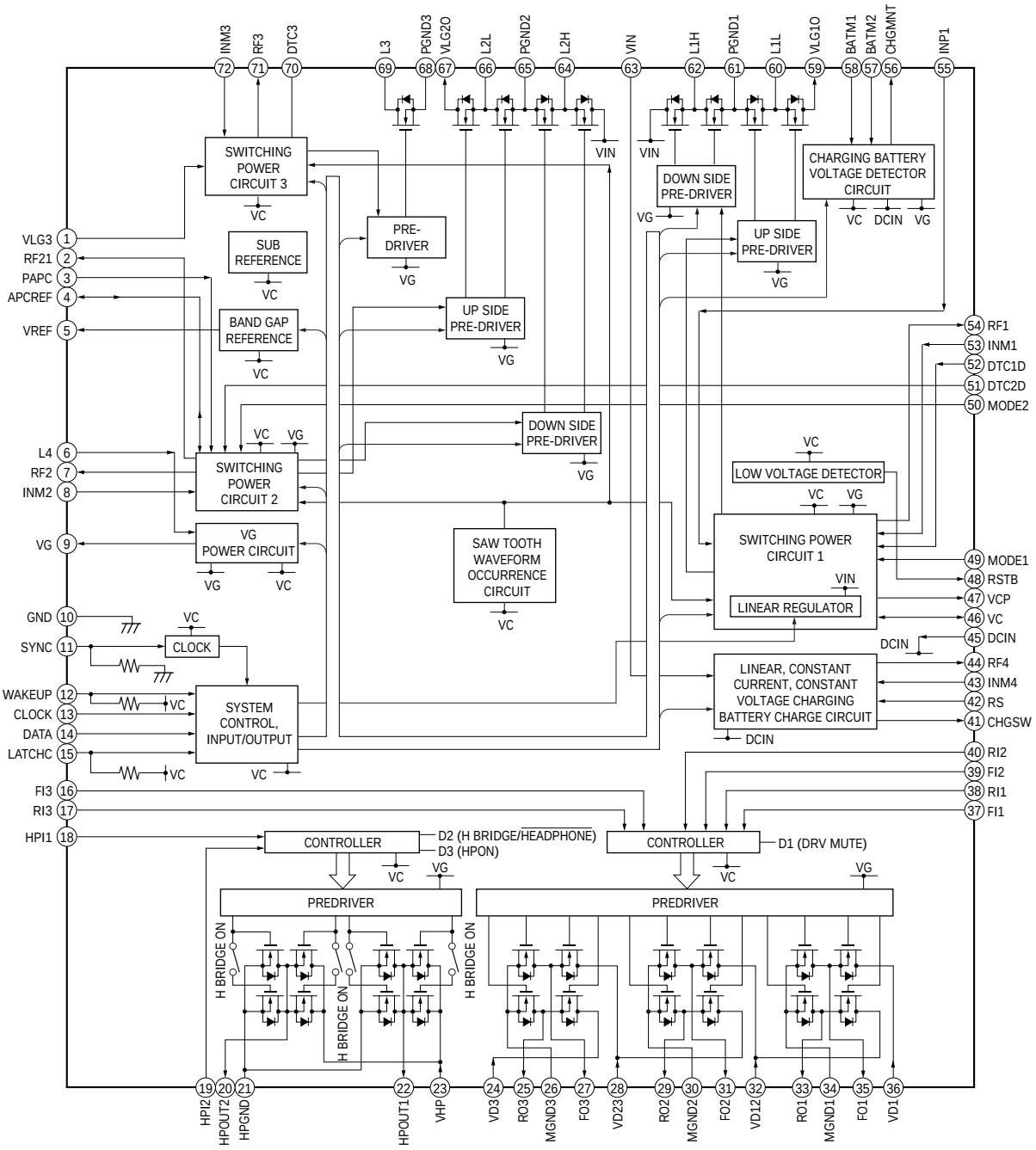
IC602 MSM51X17400D-10TFSR1



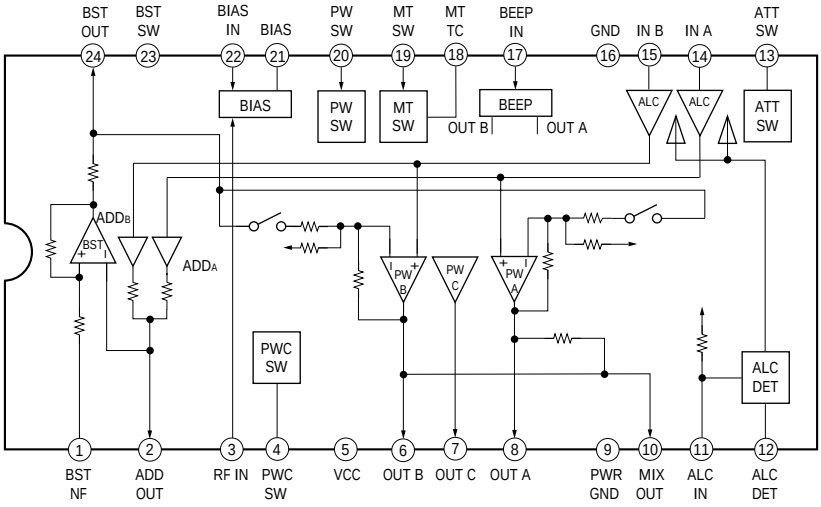
IC601 CXD3027R



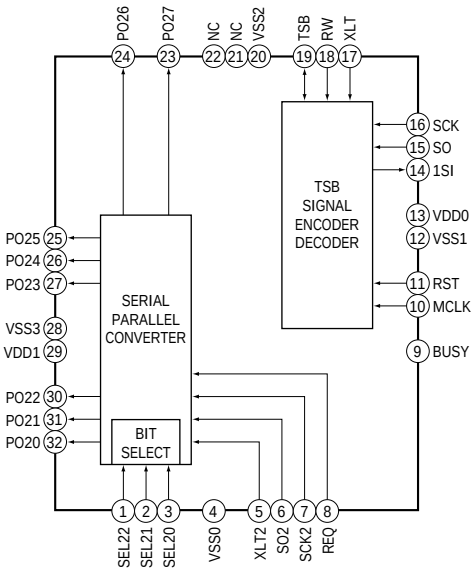
IC401 MPC17A52FTA



IC351 TA2120FN



IC802 CXD751-103R



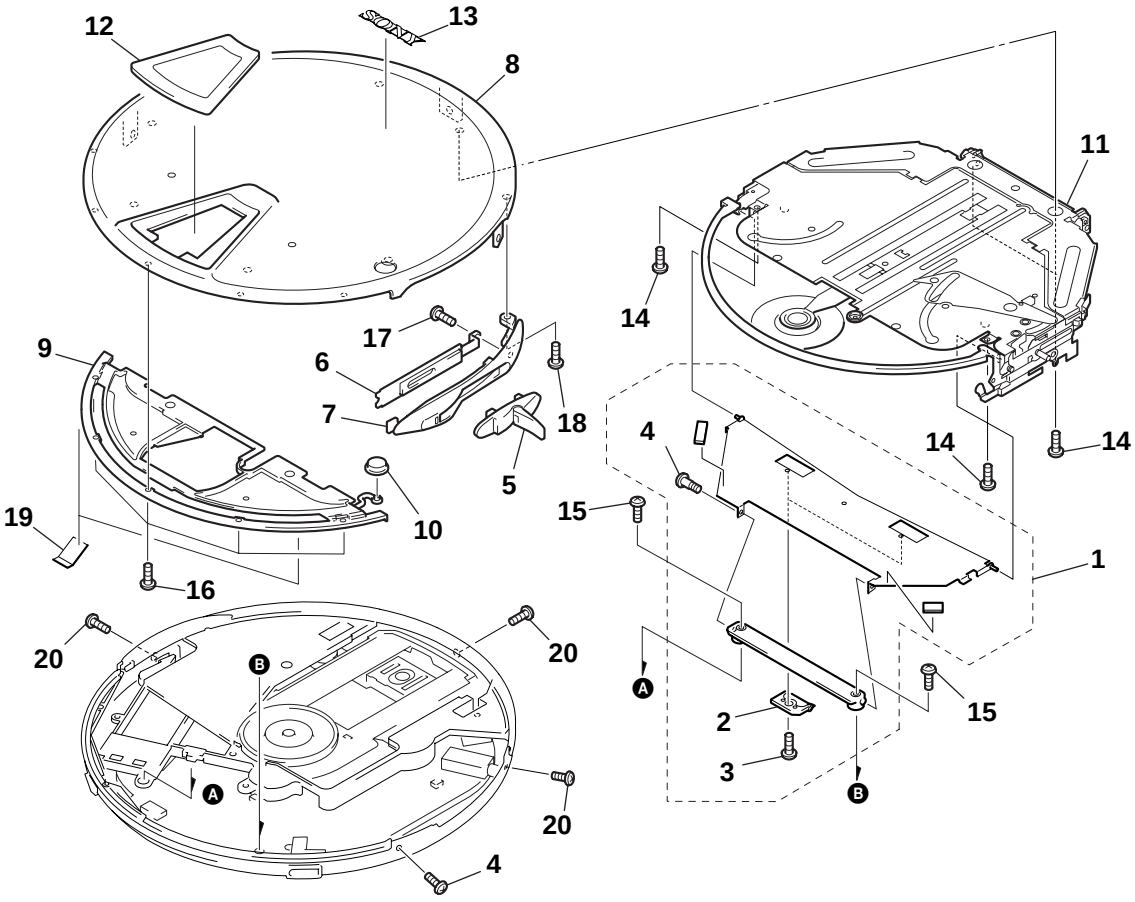
SECTION 6
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

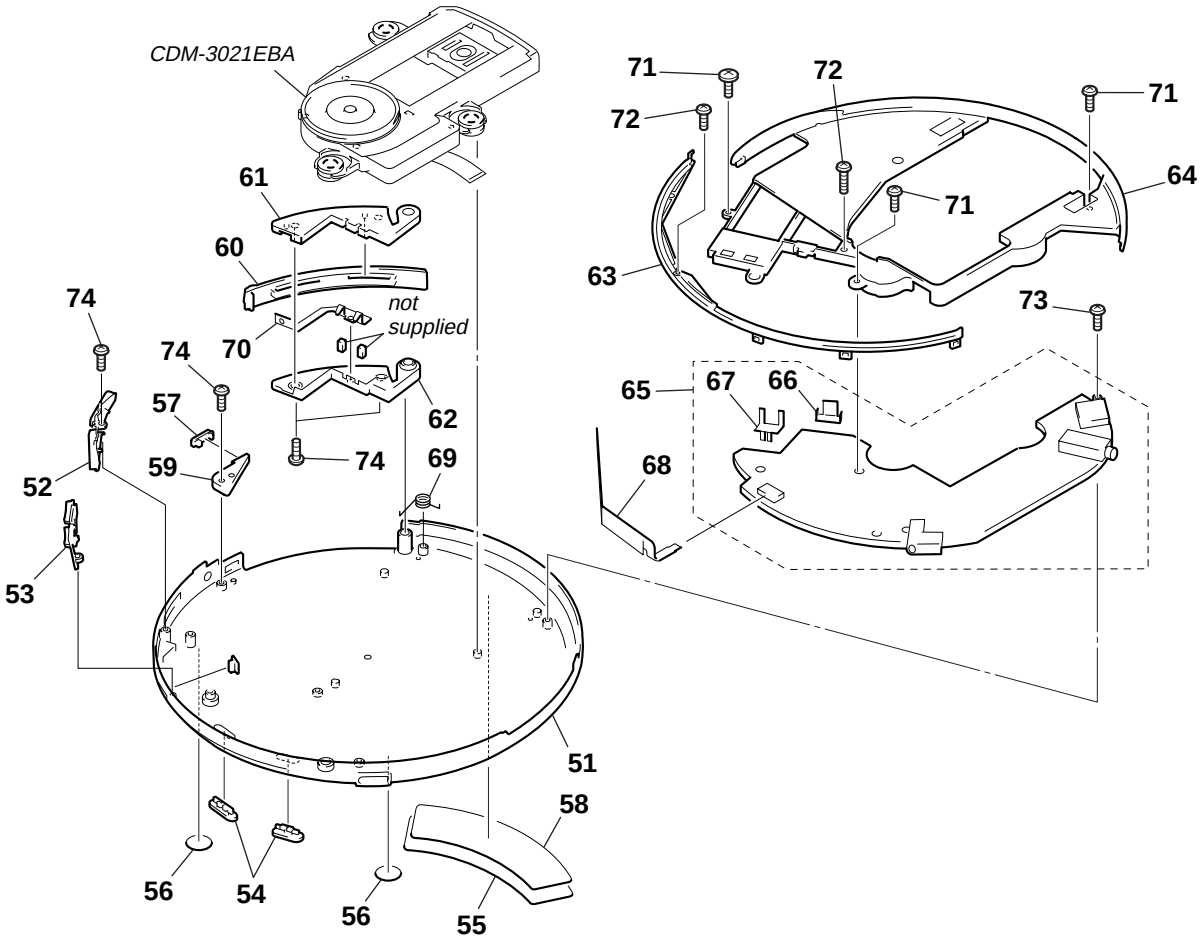
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

6-1. UPPER PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4951-877-1	TRAY (P) ASSY	
2	X-4951-881-1	ROLLER ASSY	
3	3-349-825-41	SCREW	
4	3-387-566-01	SCREW, STEP	
5	X-4951-866-1	KNOB (EJECT) ASSY	
6	4-223-633-01	CHASSIS (KNOB)	
7	4-221-948-01	ORNAMENT, EJECT	
8	4-221-928-01	PANEL, UPPER	
9	4-221-934-01	COVER, CHASSIS	
10	4-221-935-01	BUTTON (CLOSE)	
11	X-4951-875-1	MECHANICAL ASSY, LOADING	
12	4-221-931-01	WINDOW (UPPER PANEL)	
13	4-942-567-21	EMBLEM (No.4), SONY	
14	3-704-197-11	SCREW (M1.4X2.0), LOCKING	
15	3-366-746-51	SCREW (M1.4X6.5)	
16	3-704-246-13	SCREW (P1.4X2.0)	
17	3-895-823-31	SCREW (B1.4X2.3), TAPPING	
18	3-704-197-33	SCREW (M1.4X3.0), LOCKING	
19	4-224-075-01	SPACER	
20	4-222-870-11	SCREW (M2)	

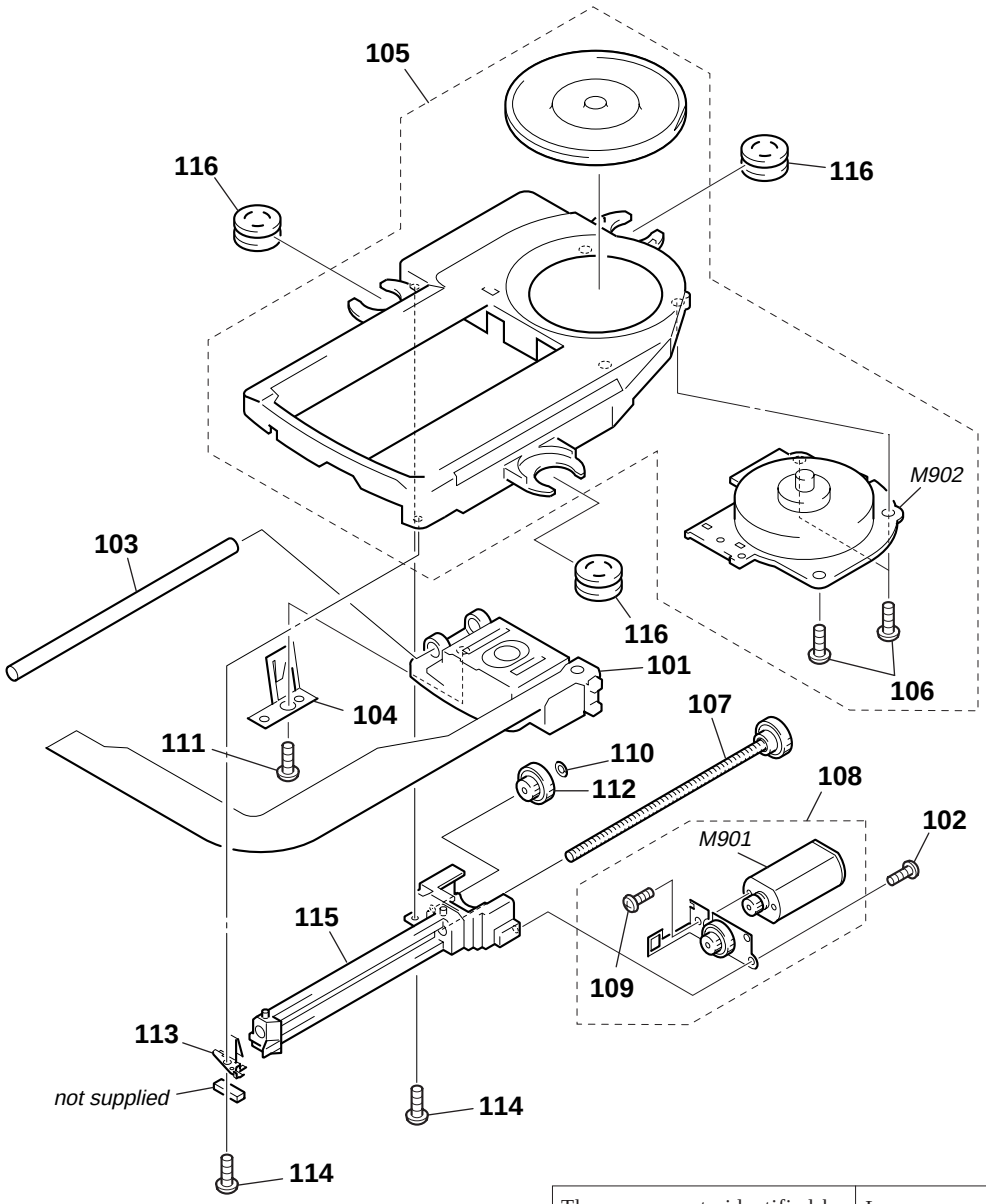
6-2. LOWER PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-221-929-01	PANEL, LOWER	
52	4-221-941-01	BUTTON (FR)	
53	4-221-942-01	BUTTON (PLAY)	
54	4-221-943-01	KNOB (AVLS)	
55	4-221-945-01	FOOT (L)	
56	4-221-947-01	FOOT (C)	
57	4-221-949-01	PLATE, LOCK	
58	4-221-952-01	FOOT, ADHESIVE SHEET	
59	4-222-237-01	BRACKET (LOCK)	
60	4-221-954-01	LID, BATTERY CASE	
61	4-221-955-01	COVER (UPPER), TERMINAL	
62	4-221-956-01	COVER (LOWER), TERMINAL	

Ref. No.	Part No.	Description	Remark
63	4-221-944-01	ESCUTCHEON	
64	4-222-032-01	CABINET	
65	A-3323-251-A	MAIN BOARD, COMPLETE	
66	4-221-489-01	TERMINAL BOARD (+), BATTERY	
67	4-221-490-01	TERMINAL BOARD (–), BATTERY	
68	A-3328-374-A	SW UNIT ASSY	
69	4-223-000-01	SPRING, TORSION	
70	4-221-953-01	RELAY, BATTERY TERMINAL BOARD	
71	3-704-197-33	SCREW (M1.4X3.0), LOCKING	
72	3-704-197-71	SCREW (M1.4X4.5), LOCKING	
73	4-223-413-01	SCREW (M1.4X3)	
74	4-908-792-01	SCREW (B2)	

6-3. CD MECHANISM DECK SECTION (CDM-3021EBA)



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠101	X-4951-768-1	RP ASSY, DAX-21E	
102	3-704-197-92	SCREW (M1.4X1.8), LOCKING	
103	4-220-645-01	SHAFT, STANDARD	
104	4-220-646-01	RACK	
105	A-3328-296-A	CHASSIS ASSY (including M902)	
106	4-973-631-31	SCREW	
107	A-3328-298-A	SCREW ASSY, FEED	
108	A-3328-299-A	MOTOR BLOCK ASSY, SLED (including M901)	

Ref. No.	Part No.	Description	Remark
109	4-964-564-01	SCREW (M1.2X1.6)	
110	3-338-645-31	WASHER (0.8-2.5)	
111	3-686-458-03	SCREW (P1.4X3.5), TAPPING	
112	4-220-648-01	GEAR (C)	
113	X-4951-688-1	BRACKET ASSY, SLED	
114	3-348-998-61	SCREW (M1.4X4), TAPPING, PAN	
115	X-4951-687-1	BASE ASSY, SLED	
116	4-221-927-01	INSULATOR	

MAIN

SECTION 7
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E33 : AC 100-240V area in E model
  FR : French model
  G : German model
  E13 : AC 220-230V area in E model
  CH : Chinese model
  HK : Hong Kong model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-3323-251-A	MAIN BOARD, COMPLETE			
		**********			
	4-221-489-01	TERMINAL BOARD (+), BATTERY			
	4-221-490-01	TERMINAL BOARD (–), BATTERY			
		< CAPACITOR >			
C101	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C102	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C103	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C104	1-125-899-11	TANTAL. CHIP	220uF	20%	4V
C161	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C163	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C201	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C202	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C203	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C204	1-125-899-11	TANTAL. CHIP	220uF	20%	4V
C261	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C263	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C301	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C304	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C306	1-115-156-11	CERAMIC CHIP	1uF		10V
C307	1-127-569-11	TANTAL. CHIP	100uF	20%	4V
C308	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C361	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C362	1-115-156-11	CERAMIC CHIP	1uF		10V
C363	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C364	1-115-156-11	CERAMIC CHIP	1uF		10V
C365	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C401	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C403	1-104-752-11	TANTAL. CHIP	33uF	20%	6.3V
C404	1-104-752-11	TANTAL. CHIP	33uF	20%	6.3V
C405	1-104-752-11	TANTAL. CHIP	33uF	20%	6.3V
C407	1-125-899-11	TANTAL. CHIP	220uF	20%	4V
C408	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C410	1-110-569-11	TANTAL. CHIP	47uF	20%	4V
C412	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C413	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C414	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C415	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C416	1-115-156-11	CERAMIC CHIP	1uF		10V
C417	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C418	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C419	1-104-847-11	TANTAL. CHIP	22uF	20%	4V

Ref. No.	Part No.	Description			Remark
C420	1-115-156-11	CERAMIC CHIP	1uF		10V
C421	1-113-682-11	TANTAL. CHIP	33uF	20%	10V
C422	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C423	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C424	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C425	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C426	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C427	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C428	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C429	1-113-682-11	TANTAL. CHIP	33uF	20%	10V
C430	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C431	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C432	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C433	1-104-752-11	TANTAL. CHIP	33uF	20%	6.3V
C434	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C435	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C436	1-104-752-11	TANTAL. CHIP	33uF	20%	6.3V
C437	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C438	1-110-569-11	TANTAL. CHIP	47uF	20%	4V
C442	1-115-156-11	CERAMIC CHIP	1uF		10V
C443	1-115-156-11	CERAMIC CHIP	1uF		10V
C444	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C445	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C448	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C449	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C450	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C451	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C452	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C453	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C454	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C455	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C456	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C457	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C501	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C502	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C601	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C602	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C604	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C606	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C607	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C608	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C609	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C611	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C612	1-162-962-11	CERAMIC CHIP	470PF	10%	50V

Ref. No.	Part No.	Description			Remark
C613	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C614	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C615	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C616	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C617	1-115-156-11	CERAMIC CHIP	1uF		10V
C618	1-164-854-11	CERAMIC CHIP	15PF	5%	16V
C619	1-164-854-11	CERAMIC CHIP	15PF	5%	16V
C620	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C621	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C622	1-115-156-11	CERAMIC CHIP	1uF		10V
C623	1-110-569-11	TANTAL. CHIP	47uF	20%	4V
C624	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C626	1-115-156-11	CERAMIC CHIP	1uF		10V
C630	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C631	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C802	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C803	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C804	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C805	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C806	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C807	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C808	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C809	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C812	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C813	1-115-156-11	CERAMIC CHIP	1uF		10V
C819	1-164-937-11	CERAMIC CHIP	0.001uF	10%	16V
C999	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN501	1-573-922-21	CONNECTOR, FFC/FPC (ZIF) 13P			
* CN502	1-785-877-21	HOUSING, CONNECTOR (BASE) 4P			
CN503	1-784-342-21	HOUSING, CONNECTOR 2P			
* CN801	1-793-230-21	CONNECTOR, FFC/FPC			
		< DIODE >			
D102	8-719-039-99	DIODE UMZ8.2T			
D202	8-719-039-99	DIODE UMZ8.2T			
D401	8-719-049-09	DIODE 1SS367-T3SONY			
D402	8-719-058-24	DIODE RB501V-40TE-17			
D404	8-719-049-09	DIODE 1SS367-T3SONY			
D405	8-719-074-47	DIODE CRS02			
D406	8-719-074-47	DIODE CRS02			
D408	8-719-075-58	LED SML-110LT-T86 (CHG/HOLD)			
D409	8-719-049-09	DIODE 1SS367-T3SONY			
D410	8-719-049-09	DIODE 1SS367-T3SONY			
D411	8-719-049-09	DIODE 1SS367-T3SONY			
D412	8-719-049-09	DIODE 1SS367-T3SONY			
D413	8-719-049-09	DIODE 1SS367-T3SONY			
D415	8-719-049-09	DIODE 1SS367-T3SONY			
D416	8-719-049-09	DIODE 1SS367-T3SONY			
D601	8-719-049-09	DIODE 1SS367-T3SONY			

Ref. No.	Part No.	Description	Remark
D602	8-719-049-09	DIODE 1SS367-T3SONY	
		< FERRITE BEAD >	
FB101	1-414-760-21	FERRITE, EMI	
FB102	1-414-760-21	FERRITE, EMI	
FB201	1-414-760-21	FERRITE, EMI	
FB202	1-414-760-21	FERRITE, EMI	
FB301	1-414-760-21	FERRITE, EMI	
FB302	1-414-760-21	FERRITE, EMI	
FB303	1-216-295-00	SHORT 0	
FB305	1-500-245-11	BEAD, FERRITE(CHIP)	
FB401	1-414-521-11	INDUCTOR 10uH	
FB601	1-500-238-22	FERRITE BEAD INDUCTOR	
		< IC >	
IC302	8-759-488-29	IC TC7W66FU(TE12R)	
IC351	8-759-522-87	IC TA2120FN(EL)	
IC401	8-752-594-57	IC MPC17A52FTA	
IC402	8-759-594-58	IC MPC17H71MTAEL	
IC403	8-759-594-55	IC TC75S57F(TE85R)	
IC404	8-759-497-26	IC XC61AN2502MR	
IC601	8-752-398-18	IC CXD3027R	
IC602	8-759-594-56	IC MSM51X17400D-10TFSR1	
IC801	8-759-596-03	IC TMP88CM22F-00	
IC802	8-752-397-55	IC CXD751-103R	
J301	8-749-016-28	IC JFJ8001-010010 (LINE OUT (OPTICAL))	
		< JACK >	
J302	1-778-179-11	JACK (🎧/REMOTE)	
J401	1-793-156-11	JACK, DC (EXT BATT/DC IN 4.5V)	
		< COIL >	
L301	1-414-813-11	FERRITE, EMI	
L302	1-412-002-31	INDUCTOR CHIP 4.7uH	
L303	1-216-295-00	SHORT 0	
L304	1-216-295-00	SHORT 0	
L305	1-216-295-00	SHORT 0	
L401	1-414-398-11	INDUCTOR 10uH	
L402	1-419-189-21	COIL, CHOKE 150uH	
L403	1-419-188-21	COIL, CHOKE 100uH	
L404	1-414-398-11	INDUCTOR 10uH	
L405	1-414-404-41	INDUCTOR 100uH	
L406	1-414-404-41	INDUCTOR 100uH	
L407	1-414-435-21	INDUCTOR 220uH	
L408	1-414-404-41	INDUCTOR 100uH	
L409	1-414-392-41	INDUCTOR 1uH	
L410	1-414-402-11	INDUCTOR 47uH	
L411	1-414-402-11	INDUCTOR 47uH	
L412	1-414-392-41	INDUCTOR 1uH	
L413	1-412-987-31	INDUCTOR 4.7uH	
L414	1-412-987-31	INDUCTOR 4.7uH	
L415	1-412-002-31	INDUCTOR CHIP 4.7uH	

MAIN

Ref. No.	Part No.	Description			Remark
L601	1-414-521-11	INDUCTOR	10uH		
L602	1-414-521-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q301	8-729-043-90	TRANSISTOR	IMX9T110		
Q302	8-729-930-00	TRANSISTOR	UMD2		
Q401	8-729-023-89	FET	2SJ305(TE85L)		
Q402	8-729-921-73	TRANSISTOR	2SD1781K-QR		
Q403	8-729-231-74	TRANSISTOR	2SC4116-GL		
Q404	8-729-921-93	TRANSISTOR	2SB1182F5-QR		
Q405	8-729-029-14	TRANSISTOR	DTC144EUA-T106		
Q406	8-729-047-36	FET	CPH3303-TL		
Q407	8-729-028-26	FET	2SK1829(TE85L)		
Q408	8-729-029-14	TRANSISTOR	DTC144EUA-T106		
Q409	8-729-029-10	TRANSISTOR	DTC143TUA-T106		
Q411	8-729-028-74	TRANSISTOR	DTA114TUA-T106		
Q412	8-729-230-60	TRANSISTOR	2SA1586-YG		
Q413	8-729-028-76	TRANSISTOR	DTA114YUA-T106		
Q414	8-729-231-74	TRANSISTOR	2SC4116-GL		
Q601	8-729-028-86	TRANSISTOR	DTA143EUA-T106		
Q602	8-729-429-49	TRANSISTOR	XP4311-TXE		
		< RESISTOR >			
R101	1-218-875-11	RES,CHIP	15K	0.50%	1/16W
R102	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R103	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R104	1-216-835-11	METAL CHIP	15K	5%	1/16W
R105	1-216-815-11	METAL CHIP	330	5%	1/16W
R106	1-216-813-11	METAL CHIP	220	5%	1/16W
R107	1-216-849-11	METAL CHIP	220K	5%	1/16W
R108	1-216-821-11	METAL CHIP	1K	5%	1/16W
R109	1-216-845-11	METAL CHIP	100K	5%	1/16W
R161	1-216-793-11	RES,CHIP	4.7	5%	1/16W
R162	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R201	1-218-875-11	RES,CHIP	15K	0.50%	1/16W
R202	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R203	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R204	1-216-835-11	METAL CHIP	15K	5%	1/16W
R205	1-216-815-11	METAL CHIP	330	5%	1/16W
R206	1-216-813-11	METAL CHIP	220	5%	1/16W
R207	1-216-849-11	METAL CHIP	220K	5%	1/16W
R208	1-216-821-11	METAL CHIP	1K	5%	1/16W
R209	1-216-845-11	METAL CHIP	100K	5%	1/16W
R261	1-216-793-11	RES,CHIP	4.7	5%	1/16W
R262	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R301	1-216-851-11	METAL CHIP	330K	5%	1/16W
R302	1-216-851-11	METAL CHIP	330K	5%	1/16W
R303	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R304	1-216-821-11	METAL CHIP	1K	5%	1/16W
R305	1-216-821-11	METAL CHIP	1K	5%	1/16W
R308	1-216-807-11	METAL CHIP	68	5%	1/16W
R401	1-216-853-11	METAL CHIP	470K	5%	1/16W
R402	1-216-841-11	METAL CHIP	47K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R403	1-218-903-11	RES,CHIP	220K	0.50%	1/16W
R404	1-218-888-11	RES,CHIP	51K	0.50%	1/16W
R405	1-218-887-11	RES,CHIP	47K	0.50%	1/16W
R406	1-218-917-11	RES,CHIP	820K	0.50%	1/16W
R407	1-216-839-11	METAL CHIP	33K	5%	1/16W
R408	1-216-841-11	METAL CHIP	47K	5%	1/16W
R409	1-216-833-11	RES,CHIP	10K	5%	1/16W
R410	1-216-833-11	RES,CHIP	10K	5%	1/16W
R411	1-216-847-11	METAL CHIP	150K	5%	1/16W
R412	1-216-839-11	METAL CHIP	33K	5%	1/16W
R415	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R416	1-216-833-11	RES,CHIP	10K	5%	1/16W
R417	1-216-811-11	METAL CHIP	150	5%	1/16W
R418	1-216-304-11	METAL CHIP	3.3	5%	1/10W
R419	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R420	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R421	1-216-845-11	METAL CHIP	100K	5%	1/16W
R422	1-216-845-11	METAL CHIP	100K	5%	1/16W
R423	1-216-857-11	METAL CHIP	1M	5%	1/16W
R424	1-216-837-11	METAL CHIP	22K	5%	1/16W
R426	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R427	1-216-837-11	METAL CHIP	22K	5%	1/16W
R428	1-216-833-11	RES,CHIP	10K	5%	1/16W
R430	1-216-841-11	METAL CHIP	47K	5%	1/16W
R433	1-216-839-11	METAL CHIP	33K	5%	1/16W
R434	1-216-864-11	METAL CHIP	0	5%	1/16W
R436	1-216-864-11	METAL CHIP	0	5%	1/16W
R438	1-216-864-11	METAL CHIP	0	5%	1/16W
R439	1-216-864-11	METAL CHIP	0	5%	1/16W
R440	1-216-864-11	METAL CHIP	0	5%	1/16W
R441	1-216-864-11	METAL CHIP	0	5%	1/16W
R442	1-216-845-11	METAL CHIP	100K	5%	1/16W
R443	1-216-833-11	RES,CHIP	10K	5%	1/16W
R444	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R445	1-216-864-11	METAL CHIP	0	5%	1/16W
R446	1-218-887-11	RES,CHIP	47K	0.50%	1/16W
R447	1-218-879-11	RES,CHIP	22K	0.50%	1/16W
R448	1-216-864-11	METAL CHIP	0	5%	1/16W
R449	1-216-809-11	METAL CHIP	100	5%	1/16W
R450	1-216-845-11	METAL CHIP	100K	5%	1/16W
R451	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R452	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R453	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R454	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R455	1-216-853-11	METAL CHIP	470K	5%	1/16W
R457	1-218-883-11	RES,CHIP	33K	0.50%	1/16W
R458	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R459	1-216-809-11	METAL CHIP	100	5%	1/16W
R460	1-216-845-11	METAL CHIP	100K	5%	1/16W
R461	1-216-841-11	METAL CHIP	47K	5%	1/16W
R462	1-216-295-00	SHORT	0		
R465	1-216-841-11	METAL CHIP	47K	5%	1/16W
R466	1-216-857-11	METAL CHIP	1M	5%	1/16W

Ref. No.	Part No.	Description			Remark
R467	1-216-821-11	METAL CHIP	1K	5%	1/16W
R469	1-216-853-11	METAL CHIP	470K	5%	1/16W
R470	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R471	1-216-841-11	METAL CHIP	47K	5%	1/16W
R474	1-218-879-11	RES,CHIP	22K	0.50%	1/16W
R475	1-216-821-11	METAL CHIP	1K	5%	1/16W
R476	1-216-851-11	METAL CHIP	330K	5%	1/16W
R477	1-216-845-11	METAL CHIP	100K	5%	1/16W
R601	1-216-833-11	RES,CHIP	10K	5%	1/16W
R602	1-216-833-11	RES,CHIP	10K	5%	1/16W
R603	1-216-839-11	METAL CHIP	33K	5%	1/16W
R605	1-216-864-11	METAL CHIP	0	5%	1/16W
R606	1-216-851-11	METAL CHIP	330K	5%	1/16W
R607	1-216-857-11	METAL CHIP	1M	5%	1/16W
R608	1-218-959-11	RES,CHIP	3.3K	5%	1/16W
R609	1-218-959-11	RES,CHIP	3.3K	5%	1/16W
R610	1-218-965-11	RES,CHIP	10K	5%	1/16W
R611	1-216-845-11	METAL CHIP	100K	5%	1/16W
R612	1-216-833-11	RES,CHIP	10K	5%	1/16W
R613	1-216-864-11	METAL CHIP	0	5%	1/16W
R614	1-216-841-11	METAL CHIP	47K	5%	1/16W
R615	1-216-837-11	METAL CHIP	22K	5%	1/16W
R616	1-216-845-11	METAL CHIP	100K	5%	1/16W
R617	1-216-837-11	METAL CHIP	22K	5%	1/16W
R618	1-216-845-11	METAL CHIP	100K	5%	1/16W
R619	1-216-837-11	METAL CHIP	22K	5%	1/16W
R621	1-216-837-11	METAL CHIP	22K	5%	1/16W
R623	1-216-837-11	METAL CHIP	22K	5%	1/16W
R624	1-218-977-11	RES,CHIP	100K	5%	1/16W
R625	1-216-864-11	METAL CHIP	0	5%	1/16W
R626	1-216-864-11	METAL CHIP	0	5%	1/16W
R627	1-216-864-11	METAL CHIP	0	5%	1/16W
R628	1-216-864-11	METAL CHIP	0	5%	1/16W
R629	1-216-864-11	METAL CHIP	0	5%	1/16W
R630	1-216-805-11	METAL CHIP	47	5%	1/16W
R631	1-218-977-11	RES,CHIP	100K	5%	1/16W
R632	1-216-845-11	METAL CHIP	100K	5%	1/16W
R634	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R635	1-218-939-11	RES,CHIP	68	5%	1/16W
R636	1-218-953-11	RES,CHIP	1K	5%	1/16W
R801	1-216-845-11	METAL CHIP	100K	5%	1/16W
R802	1-216-833-11	RES,CHIP	10K	5%	1/16W
R804	1-216-809-11	METAL CHIP	100	5%	1/16W
R805	1-216-845-11	METAL CHIP	100K	5%	1/16W
R806	1-216-864-11	METAL CHIP	0	5%	1/16W
R807	1-216-845-11	METAL CHIP	100K	5%	1/16W
R808	1-216-845-11	METAL CHIP	100K	5%	1/16W
R809	1-216-821-11	METAL CHIP	1K	5%	1/16W
R810	1-216-833-11	RES,CHIP	10K	5%	1/16W
R811	1-216-837-11	METAL CHIP	22K	5%	1/16W
R813	1-216-833-11	RES,CHIP	10K	5%	1/16W
R814	1-216-833-11	RES,CHIP	10K	5%	1/16W
R815	1-216-864-11	METAL CHIP	0	5%	1/16W

Ref. No.	Part No.	Description			Remark
R819	1-216-864-11	METAL CHIP	0	5%	1/16W
R820	1-216-864-11	METAL CHIP	0	5%	1/16W
R821	1-216-864-11	METAL CHIP	0	5%	1/16W
R824	1-216-864-11	METAL CHIP	0	5%	1/16W
R825	1-216-857-11	METAL CHIP	1M	5%	1/16W
R826	1-216-864-11	METAL CHIP	0	5%	1/16W
R827	1-216-857-11	METAL CHIP	1M	5%	1/16W
R828	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R829	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R830	1-216-843-11	METAL CHIP	68K	5%	1/16W
R831	1-216-864-11	METAL CHIP	0	5%	1/16W
R835	1-218-990-11	RES,CHIP	0	5%	1/16W
R836	1-218-990-11	RES,CHIP	0	5%	1/16W
R837	1-218-990-11	RES,CHIP	0	5%	1/16W
R999	1-218-889-11	RES,CHIP	56K	0.50%	1/16W

< SWITCH >

S801	1-762-805-41	SWITCH, PUSH (1 KEY) (OPEN)
S803	1-762-078-11	SWITCH, SLIDE (AVLS)
S804	1-762-078-11	SWITCH, SLIDE (HOLD)

< VARISTOR >

VDR101	1-801-923-11	VARISTOR(CHIP)
VDR201	1-801-923-11	VARISTOR(CHIP)
VDR301	1-801-923-11	VARISTOR(CHIP)
VDR302	1-801-923-11	VARISTOR(CHIP)
VDR303	1-801-923-11	VARISTOR(CHIP)
VDR304	1-801-862-11	VARISTOR(CHIP)

< VIBRATOR >

X601	1-767-605-11	VIBRATOR, LITHIUM TANTALATE (16.9MHz)

****

MISCELLANEOUS

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⚠101	X-4951-768-1	RP ASSY, DAX-21E
105	A-3328-296-A	CHASSIS ASSY (including M902)
108	A-3328-299-A	MOTOR BLOCK ASSY, SLED (including M901)

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The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-418-559-11	REMOTE CONTROL (RM-CD01ELT)	
⚠	1-467-007-22	ADAPTOR, AC (AC-E455) (AUS)	
⚠	1-467-009-21	ADAPTOR, AC (AC-E455) (US,CND)	
⚠	1-467-550-23	ADAPTOR, AC (AC-E455A) (E01/E33)	
⚠	1-473-115-11	ADAPTOR, AC (AC-E455D) (UK)	
⚠	1-473-116-35	ADAPTOR, AC (AC-E455D) (AEP,FR,G,E13)	
⚠	1-475-622-12	ADAPTOR, AC (AC-E455) (CH)	
⚠	1-475-623-11	ADAPTOR, AC (AC-E455) (EJ01:HK)	
	1-528-842-11	BATTERY, NICKEL HYDROGEN (NH-14WM)	
	1-528-988-11	BATTERY CASE	
⚠	1-569-007-11	ADAPTOR, CONVERSION 2P (E01/E33)	
	3-008-521-21	CASE, BATTERY CHARGE	
	3-867-149-01	MANUAL, INSTRUCTION (JAPANESE,ENGLISH, TRADITIONAL CHINESE,KOREAN) (E01)	
	3-867-149-11	MANUAL, INSTRUCTION (SPANISH) (E01/AEP,E33)	
	3-867-149-21	MANUAL, INSTRUCTION (ENGLISH) (EXCEPT G)	
	3-867-149-31	MANUAL, INSTRUCTION (FRENCH) (E01/CND,AEP,FR)	
	3-867-149-41	MANUAL, INSTRUCTION (DUTCH) (AEP)	
	3-867-149-51	MANUAL, INSTRUCTION (SWEDISH) (AEP)	
	3-867-149-61	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
	3-867-149-71	MANUAL, INSTRUCTION (GERMAN) (AEP,G)	
	3-867-149-81	MANUAL, INSTRUCTION (ITALIAN) (AEP)	
	3-867-149-91	MANUAL, INSTRUCTION (FINNISH) (AEP)	
	3-867-150-11	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (EJ01:E13,HK)	
	3-867-150-21	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (CH)	
	4-221-649-01	CASE, CARRYING	
	8-953-218-91	RECEIVER MDR-E838SP (EXCEPT US)	
	8-953-733-90	HEADPHONE MDR-W034SP (US)	

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